

NORME  
INTERNATIONALE  
  
INTERNATIONAL  
STANDARD

**CEI  
IEC**

**86-2**

1987

**MODIFICATION 1  
AMENDMENT 1**

1989-09

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Modification 1 à la Publication 86-2 (1987)

**Piles électriques**

**Deuxième partie:**

Feuilles de spécifications

Les feuilles de cette modification sont à insérer dans la Publication 86-2 (1987)

Amendment 1 to Publication 86-2 (1987)

**Primary batteries**

**Part 2:**

Specification sheets

The sheets contained in this amendment are to be inserted in Publication 86-2 (1987)

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**INSTRUCTIONS POUR L'INSERTION DES  
NOUVELLES PAGES ET FEUILLES DE  
SPÉCIFICATION DANS LA PUBLICATION**

- 1 Retirer la page de titre et insérer la nouvelle page de titre
- 2 Retirer les pages 6 et 8 et insérer les nouvelles pages 5 et 10
- 3 a) Retirer la feuille de spécification physique 45F40  
b) Retirer les feuilles de spécification du couple R62 R63 R64, R65, R66, R67, R68, R69 et 45F40
- 4 a) Retirer les feuilles de spécification physique suivantes et insérer les nouvelles feuilles correspondantes: 4R25X, 4R25 2, R62 R63, R64, R65, R66, R67, R68 R69 et R0772  
b) Retirer les feuilles de spécification du couple suivantes et insérer les nouvelles feuilles correspondantes: LR03, R6C, R6P, R6S, LR6, MR9, R14C, R14P R14S, LR14, LR20, 5AR40, LR41, MR41 SR41 MR42 NR42, SR42 LR43, MR43, SR43, LR44, MR44 NR44, SR44 MR48 SR48, LR54, MR54, SR54 LR56 CR0772, CR1220 CR1620, CR2016, CR2020 CR2025, CR2032, CR2320, CR2420 CR2425, CR2430 6AS4 et 6AS6
- 5 a) Insérer les nouvelles feuilles de spécification physique suivantes: 4R61, R11108 et R12600  
b) Insérer les nouvelles feuilles de spécification du couple suivantes: 4LR25X 4LR25 2 SR62, TR62, SR63, TR63 SR64 TR64 LR65 SR65 TR65, LR66 SR66, TR66 LR67, SR67, TR67, LR68, SR68, TR68 LR69, SR69 TR69, CR11108, 2CR11108 et CR12600

**INSTRUCTIONS FOR THE INSERTION  
OF NEW PAGES AND SHEETS  
IN PUBLICATION**

- 1 Remove title page and insert new title page
- 2 Remove pages 7 and 9 and insert new pages 5 and 10
- 3 a) Remove physical specification sheet 45F40  
b) Remove system specification sheets R62, R63, R64, R65 R66 R67 R68 R69 and 45F40
- 4 a) Remove the following physical specification sheets and insert the new corresponding sheets: 4R25X 4R25 2, R62 R63, R64 R65 R66 R67 R68 R69 and R0772  
b) Remove the following system specification sheet and insert the new corresponding sheets: LR03, R6C, R6P, R6S, LR6, MR9, R14C, R14P, R14S, LR14, LR20, 5AR40, LR41, MR41, SR41, MR42, NR42, SR42 LR43 MR43 SR43, LR44, MR44, NR44, SR44, MR48 SR48 LR54, MR54, SR54, LR56, CR0772, CR1220 CR1620, CR2016, CR2020, CR2025, CR2032 CR2320 CR2420, CR2425, CR2430 6AS4 and 6AS6
- 5 a) Insert new physical specification sheets 4R61 R11108 and R12600  
b) Insert new system specification sheets 4LR25X 4LR25 2 SR62, TR62, SR63, TR63, SR64, TR64 LR65, SR65 TR65 LR66 SR66 TR66 LR67 SR67 TR67 LR68 SR68 TR68 LR69 SR69, CR11108, 2CR11108 and CR12600

**PRÉFACE**

La présente modification a été établie par le Comité d'Etudes n° 35 de la CEI: Piles  
Le texte de cette modification est issu des documents suivants:

| Règle des Six Mois                | Rapport de vote                   |
|-----------------------------------|-----------------------------------|
| 35(BC)404 422<br>35(BC)424 et 425 | 35(BC)432 450<br>35(BC)452 et 453 |

Les rapports de vote indiqués dans le tableau ci-dessus donnent toute information sur le vote ayant abouti à l'approbation de cette modification

**PREFACE**

This amendment has been prepared by IEC Technical Committee No 35: Primary batteries  
The text of this amendment is based on the following documents:

| Six Months' Rule                   | Report on Voting                   |
|------------------------------------|------------------------------------|
| 35(CO)404 422<br>35(CO)424 and 425 | 35(CO)432 450<br>35(CO)452 and 453 |

Full information on the voting for the approval of this standard can be found in the Voting Reports indicated in the above table

NORME  
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**CEI  
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INTERNATIONAL  
STANDARD

**86-2**

Sixième édition  
Sixth edition  
1987

Modifiée selon la Modification 1 (1989)  
Amended according to Amendment 1 (1989)

## **Piles électriques**

### **Deuxième partie: Feuilles de spécifications**

## **Primary batteries**

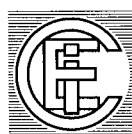
### **Part 2: Specification sheets**

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PRIMARY BATTERIES****Part 2: Specification sheets**

## FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter
- 4) The IEC has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations

## PREFACE

This standard has been prepared by IEC Technical Committee No. 35: Primary Cells and Batteries

It constitutes the sixth edition of IEC Publication 86-2 and replaces the fifth edition (1982) and its first supplement: Publication 86-2A (1984)

The text of this standard is based on the fifth edition Publication 86-2A and the following documents:

| Six Months Rule | Reports on Voting |
|-----------------|-------------------|
| 35(CO)355       | 35(CO)381         |
| 35(CO)356       | 35(CO)382         |
| 35(CO)359       | 35(CO)385         |
| 35(CO)361       | 35(CO)387         |
| 35(CO)362       | 35(CO)388         |
| 35(CO)363       | 35(CO)389         |
| 35(CO)364       | 35(CO)390         |
| 35(CO)365       | 35(CO)391         |
| 35(CO)366       | 35(CO)392         |
| 35(CO)367       | 35(CO)393         |
| 35(CO)368       | 35(CO)394         |
| 35(CO)369       | 35(CO)395         |
| 35(CO)370       | 35(CO)396         |
| 35(CO)371       | 35(CO)397         |
| 35(CO)372       | 35(CO)398         |
| 35(CO)373       | 35(CO)399         |

Full information on the voting for the approval of this standard can be found in the Voting Reports indicated in the above table

This sixth edition of IEC Publication 86 consists of:

- Part 1: General (IEC Publication 86 1);
- Part 2: Specification Sheets (IEC Publication 86 2)

### Recueil et liste récapitulative des feuilles de spécifications

Le tableau ci-dessous donne une liste complète de toutes les feuilles de spécifications individuelles faisant partie de la 6<sup>e</sup> édition modifiée (dans l'ordre dans lequel elles doivent être classées)

Spéc phys = Spécification physique

Spéc du couple = Spécification du couple

| Désignation et référence de la feuille |                | Date de publication | Désignation et référence de la feuille |                | Date de publication |
|----------------------------------------|----------------|---------------------|----------------------------------------|----------------|---------------------|
| R03                                    | Spéc phys      | Juillet 1982        | R25 4                                  | Spéc du couple | Juillet 1982        |
| R03                                    | Spéc du couple | Décembre 1986       | R40                                    | Spéc phys      | Août 1984           |
| LR03                                   | Spéc du couple | Septembre 1989      | R40                                    | Spéc du couple | Décembre 1980       |
| R1                                     | Spéc phys      | Décembre 1980       | 5R40                                   | Spéc phys      | Juillet 1982        |
| R1                                     | Spéc du couple | Juillet 1982        | 5AR40                                  | Spéc du couple | Septembre 1989      |
| LR1                                    | Spéc du couple | Juillet 1982        | R41                                    | Spéc phys      | Décembre 1986       |
| MR1                                    | Spéc du couple | Décembre 1986       | LR41                                   | Spéc du couple | Septembre 1989      |
| R6                                     | Spéc phys      | Décembre 1986       | MR41                                   | Spéc du couple | Septembre 1989      |
| R6C                                    | Spéc du couple | Septembre 1989      | NR41                                   | Spéc du couple | Décembre 1986       |
| R6P                                    | Spéc du couple | Septembre 1989      | PR41                                   | Spéc du couple | Août 1984           |
| R6S                                    | Spéc du couple | Septembre 1989      | SR41                                   | Spéc du couple | Septembre 1989      |
| LR6                                    | Spéc du couple | Septembre 1989      | TR41                                   | Spéc du couple | Décembre 1986       |
| R9                                     | Spéc phys      | Décembre 1986       | R42                                    | Spéc phys      | Août 1984           |
| LR9                                    | Spéc du couple | Août 1984           | MR42                                   | Spéc du couple | Septembre 1989      |
| MR9                                    | Spéc du couple | Septembre 1989      | NR42                                   | Spéc du couple | Septembre 1989      |
| NR9                                    | Spéc du couple | Juillet 1982        | SR42                                   | Spéc du couple | Septembre 1989      |
| 2R9                                    | Spéc phys      | Août 1984           | TR42                                   | Spéc du couple | Décembre 1986       |
| 2MR9                                   | Spéc du couple | Décembre 1986       | 4R42                                   | Spéc phys      | Décembre 1986       |
| 2R10                                   | Spéc phys      | Juillet 1982        | 4NR42                                  | Spéc du couple | Juillet 1982        |
| 2R10                                   | Spéc du couple | Août 1984           | R43                                    | Spéc phys      | Août 1984           |
| 3R12                                   | Spéc phys      | Juillet 1982        | LR43                                   | Spéc du couple | Septembre 1989      |
| 3R12                                   | Spéc du couple | Décembre 1980       | MR43                                   | Spéc du couple | Septembre 1989      |
| R14                                    | Spéc phys      | Décembre 1986       | PR43                                   | Spéc du couple | Août 1984           |
| R14C                                   | Spéc du couple | Septembre 1989      | SR43                                   | Spéc du couple | Septembre 1989      |
| R14P                                   | Spéc du couple | Septembre 1989      | TR43                                   | Spéc du couple | Décembre 1986       |
| R14S                                   | Spéc du couple | Septembre 1989      | R44                                    | Spéc phys      | Août 1984           |
| LR14                                   | Spéc du couple | Septembre 1989      | LR44                                   | Spéc du couple | Septembre 1989      |
| R20                                    | Spéc phys      | Décembre 1986       | MR44                                   | Spéc du couple | Septembre 1989      |
| R20C                                   | Spéc du couple | Décembre 1986       | NR44                                   | Spéc du couple | Septembre 1989      |
| R20P                                   | Spéc du couple | Décembre 1986       | PR44                                   | Spéc du couple | Août 1984           |
| R20S                                   | Spéc du couple | Décembre 1986       | SR44                                   | Spéc du couple | Septembre 1989      |
| LR20                                   | Spéc du couple | Septembre 1989      | TR44                                   | Spéc du couple | Décembre 1986       |
| 3R20X                                  | Spéc phys      | Juillet 1982        | 4R44                                   | Spéc phys      | Décembre 1986       |
| 3R20X                                  | Spéc du couple | Octobre 1977        | 4LR44                                  | Spéc du couple | Décembre 1986       |
| 3R25                                   | Spéc phys      | Juillet 1982        | 4SR44                                  | Spéc du couple | Décembre 1986       |
| 3R25                                   | Spéc du couple | Juillet 1982        | R48                                    | Spéc phys      | Décembre 1986       |
| 4R25X                                  | Spéc phys      | Septembre 1989      | MR48                                   | Spéc du couple | Septembre 1989      |
| 4R25X                                  | Spéc du couple | Août 1984           | NR48                                   | Spéc du couple | Décembre 1986       |
| 4LR25X                                 | Spéc du couple | Septembre 1989      | PR48                                   | Spéc du couple | Août 1984           |
| 4R25Y                                  | Spéc phys      | Juillet 1982        | SR48                                   | Spéc du couple | Septembre 1989      |
| 4R25Y                                  | Spéc du couple | Août 1984           | TR48                                   | Spéc du couple | Décembre 1986       |
| 4R25 2                                 | Spéc phys      | Septembre 1989      | R50                                    | Spéc phys      | Décembre 1986       |
| 4R25 2                                 | Spéc du couple | Août 1984           | MR50                                   | Spéc du couple | Août 1984           |
| 4LR25 2                                | Spéc du couple | Septembre 1989      | NR50                                   | Spéc du couple | Août 1984           |
| R25-4                                  | Spéc phys      | Juillet 1982        |                                        |                |                     |

## Contents summary and specification sheet references

The table below gives a complete list of all the individual battery specification sheets forming part of the present edition (in the order in which they should be filed)

physical spec = physical specification

system spec = system specification

| Designation and sheet reference |               | Date of issue  | Designation and sheet reference |               | Date of issue  |
|---------------------------------|---------------|----------------|---------------------------------|---------------|----------------|
| R03                             | physical spec | July 1982      | R25 4                           | system spec   | July 1982      |
| R03                             | system spec   | December 1986  | R40                             | physical spec | August 1984    |
| LR03                            | system spec   | September 1989 | R40                             | system spec   | December 1980  |
| R1                              | physical spec | December 1980  | 5R40                            | physical spec | July 1982      |
| R1                              | system spec   | July 1982      | 5AR40                           | system spec   | September 1989 |
| LR1                             | system spec   | July 1982      | R41                             | physical spec | December 1986  |
| MR1                             | system spec   | December 1986  | LR41                            | system spec   | September 1989 |
| R6                              | physical spec | December 1986  | MR41                            | system spec   | September 1989 |
| R6C                             | system spec   | September 1989 | NR41                            | system spec   | December 1986  |
| R6P                             | system spec   | September 1989 | PR41                            | system spec   | August 1984    |
| R6S                             | system spec   | September 1989 | SR41                            | system spec   | September 1989 |
| LR6                             | system spec   | September 1989 | TR41                            | system spec   | December 1986  |
| R9                              | physical spec | December 1986  | R42                             | physical spec | August 1984    |
| LR9                             | system spec   | August 1984    | MR42                            | system spec   | September 1989 |
| MR9                             | system spec   | September 1989 | NR42                            | system spec   | September 1989 |
| NR9                             | system spec   | July 1982      | SR42                            | system spec   | September 1989 |
| 2R9                             | physical spec | August 1984    | TR42                            | system spec   | December 1986  |
| 2MR9                            | system spec   | December 1986  | 4R42                            | physical spec | December 1986  |
| 2R10                            | physical spec | July 1982      | 4NR42                           | system spec   | July 1982      |
| 2R10                            | system spec   | August 1984    | R43                             | physical spec | August 1984    |
| 3R12                            | physical spec | July 1982      | LR43                            | system spec   | September 1989 |
| 3R12                            | system spec   | December 1980  | MR43                            | system spec   | September 1989 |
| R14                             | physical spec | December 1986  | PR43                            | system spec   | August 1984    |
| R14C                            | system spec   | September 1989 | SR43                            | system spec   | September 1989 |
| R14P                            | system spec   | September 1989 | TR43                            | system spec   | December 1986  |
| R14S                            | system spec   | September 1989 | R44                             | physical spec | August 1984    |
| LR14                            | system spec   | September 1989 | LR44                            | system spec   | September 1989 |
| R20                             | physical spec | December 1986  | MR44                            | system spec   | September 1989 |
| R20C                            | system spec   | December 1986  | NR44                            | system spec   | September 1989 |
| R20P                            | system spec   | December 1986  | PR44                            | system spec   | August 1984    |
| R20S                            | system spec   | December 1986  | SR44                            | system spec   | September 1989 |
| LR20                            | system spec   | September 1989 | TR44                            | system spec   | December 1986  |
| 3R20X                           | physical spec | July 1982      | 4R44                            | physical spec | December 1986  |
| 3R20X                           | system spec   | October 1977   | 4LR44                           | system spec   | December 1986  |
| 3R25                            | physical spec | July 1982      | 4SR44                           | system spec   | December 1986  |
| 3R25                            | system spec   | July 1982      | R48                             | physical spec | December 1986  |
| 4R25X                           | physical spec | September 1989 | MR48                            | system spec   | September 1989 |
| 4R25X                           | system spec   | August 1984    | NR48                            | system spec   | December 1986  |
| 4LR25X                          | system spec   | September 1989 | PR48                            | system spec   | August 1984    |
| 4R25Y                           | physical spec | July 1982      | SR48                            | system spec   | September 1989 |
| 4R25Y                           | system spec   | August 1984    | TR48                            | system spec   | December 1986  |
| 4R25 2                          | physical spec | September 1989 | R50                             | physical spec | December 1986  |
| 4R25 2                          | system spec   | August 1984    | MR50                            | system spec   | August 1984    |
| 4LR25 2                         | system spec   | September 1989 | NR50                            | system spec   | August 1984    |
| R25 4                           | physical spec | July 1982      |                                 |               |                |

| Désignation et références de la feuille |                | Date de publication | Désignation et référence de la feuille |                | Date de publication |
|-----------------------------------------|----------------|---------------------|----------------------------------------|----------------|---------------------|
| R52                                     | Spéc phys      | Décembre 1986       | R69                                    | Spéc phys      | Septembre 1989      |
| MR52                                    | Spéc du couple | Août 1984           | LR69                                   | Spéc du couple | Septembre 1989      |
| NR52                                    | Spéc du couple | Août 1984           | SR69                                   | Spéc du couple | Septembre 1989      |
| R53                                     | Spéc phys      | Décembre 1986       | TR69                                   | Spéc du couple | Septembre 1989      |
| LR53                                    | Spéc du couple | Juillet 1982        | R0772                                  | Spéc phys      | Septembre 1989      |
| R54                                     | Spéc phys      | Décembre 1986       | CR0772                                 | Spéc du couple | Septembre 1989      |
| LR54                                    | Spéc du couple | Septembre 1989      | R1220                                  | Spéc phys      | Décembre 1986       |
| MR54                                    | Spéc du couple | Septembre 1989      | CR1220                                 | Spéc du couple | Septembre 1989      |
| SR54                                    | Spéc du couple | Septembre 1989      | R1620                                  | Spéc phys      | Décembre 1986       |
| TR54                                    | Spéc du couple | Décembre 1986       | CR1620                                 | Spéc du couple | Septembre 1989      |
| R55                                     | Spéc phys      | Août 1984           | R2016                                  | Spéc phys      | Décembre 1986       |
| LR55                                    | Spéc du couple | Août 1984           | CR2016                                 | Spéc du couple | Septembre 1989      |
| SR55                                    | Spéc du couple | Décembre 1986       | R2020                                  | Spéc phys      | Décembre 1986       |
| TR55                                    | Spéc du couple | Décembre 1986       | CR2020                                 | Spéc du couple | Septembre 1989      |
| R56                                     | Spéc phys      | Août 1984           | R2025                                  | Spéc phys      | Décembre 1986       |
| LR56                                    | Spéc du couple | Septembre 1989      | CR2025                                 | Spéc du couple | Septembre 1989      |
| SR56                                    | Spéc du couple | Décembre 1980       | R2032                                  | Spéc phys      | Décembre 1986       |
| R57                                     | Spéc phys      | Août 1984           | CR2032                                 | Spéc du couple | Septembre 1989      |
| SR57                                    | Spéc du couple | Décembre 1980       | R2320                                  | Spéc phys      | Décembre 1986       |
| TR57                                    | Spéc du couple | Décembre 1986       | CR2320                                 | Spéc du couple | Septembre 1989      |
| R58                                     | Spéc phys      | Août 1984           | R2420                                  | Spéc phys      | Décembre 1986       |
| SR58                                    | Spéc du couple | Décembre 1986       | CR2420                                 | Spéc du couple | Septembre 1989      |
| TR58                                    | Spéc du couple | Décembre 1986       | R2425                                  | Spéc phys      | Décembre 1986       |
| R59                                     | Spéc phys      | Août 1984           | CR2425                                 | Spéc du couple | Septembre 1989      |
| SR59                                    | Spéc du couple | Juillet 1982        | R2430                                  | Spéc phys      | Décembre 1986       |
| TR59                                    | Spéc du couple | Décembre 1986       | CR2430                                 | Spéc du couple | Septembre 1989      |
| R60                                     | Spéc phys      | Août 1984           | R11108                                 | Spéc phys      | Septembre 1989      |
| SR60                                    | Spéc du couple | Décembre 1986       | CR11108                                | Spéc du couple | Septembre 1989      |
| TR60                                    | Spéc du couple | Décembre 1986       | 2CR11108                               | Spéc du couple | Septembre 1989      |
| 4R61                                    | Spéc phys      | Septembre 1989      | R12600                                 | Spéc phys      | Septembre 1989      |
| 6R61                                    | Spéc phys      | Décembre 1986       | CR12600                                | Spéc du couple | Septembre 1989      |
| 6LR61                                   | Spéc du couple | Juillet 1982        | S4                                     | Spéc phys      | Juillet 1982        |
| R62                                     | Spéc phys      | Septembre 1989      | S4                                     | Spéc du couple | Juillet 1982        |
| SR62                                    | Spéc du couple | Septembre 1989      | 6S4                                    | Spéc phys      | Décembre 1986       |
| TR62                                    | Spéc du couple | Septembre 1989      | 6AS4                                   | Spéc du couple | Septembre 1989      |
| R63                                     | Spéc phys      | Septembre 1989      | 6S6                                    | Spéc phys      | Décembre 1986       |
| SR63                                    | Spéc du couple | Septembre 1989      | 6AS6                                   | Spéc du couple | Septembre 1989      |
| TR63                                    | Spéc du couple | Septembre 1989      | 10F15                                  | Spéc phys      | Juillet 1982        |
| R64                                     | Spéc du couple | Septembre 1989      | 10F15                                  | Spéc du couple | Juillet 1982        |
| SR64                                    | Spéc du couple | Septembre 1989      | 15F15                                  | Spéc phys      | Juillet 1982        |
| TR64                                    | Spéc du couple | Septembre 1989      | 15F15                                  | Spéc du couple | Juillet 1982        |
| R65                                     | Spéc phys      | Septembre 1989      | 4F16                                   | Spéc phys      | Juillet 1982        |
| LR65                                    | Spéc du couple | Septembre 1989      | 4F16                                   | Spéc du couple | Juillet 1982        |
| SR65                                    | Spéc du couple | Septembre 1989      | 10F20                                  | Spéc phys      | Juillet 1982        |
| TR65                                    | Spéc du couple | Septembre 1989      | 10F20                                  | Spéc du couple | Juillet 1982        |
| R66                                     | Spéc phys      | Septembre 1989      | 15F20                                  | Spéc phys      | Juillet 1982        |
| LR66                                    | Spéc du couple | Septembre 1989      | 15F20                                  | Spéc du couple | Juillet 1982        |
| SR66                                    | Spéc du couple | Septembre 1989      | 20F20                                  | Spéc phys      | Juillet 1982        |
| TR66                                    | Spéc du couple | Septembre 1989      | 20F20                                  | Spéc du couple | Juillet 1982        |
| R67                                     | Spéc phys      | Septembre 1989      | 6F22                                   | Spéc du couple | Août 1984           |
| LR67                                    | Spéc du couple | Septembre 1989      | 6F24                                   | Spéc phys      | Juillet 1982        |
| SR67                                    | Spéc du couple | Septembre 1989      | 6F24                                   | Spéc du couple | Juillet 1982        |
| TR67                                    | Spéc du couple | Septembre 1989      | 6F50 2                                 | Spéc phys      | Juillet 1982        |
| R68                                     | Spéc phys      | Septembre 1989      | 6F50 2                                 | Spéc du couple | Juillet 1982        |
| LR68                                    | Spéc du couple | Septembre 1989      | 6F100                                  | Spéc phys      | Juillet 1982        |
| SR68                                    | Spéc du couple | Septembre 1989      | 6F100                                  | Spéc du couple | Août 1984           |
| TR68                                    | Spéc du couple | Septembre 1989      |                                        |                |                     |

| Designation and sheet reference |               | Date of issue  | Designation and sheet reference |               | Date of issue  |
|---------------------------------|---------------|----------------|---------------------------------|---------------|----------------|
| R52                             | physical spec | December 1986  | R69                             | physical spec | September 1989 |
| MR52                            | system spec   | August 1984    | LR69                            | system spec   | September 1989 |
| NR52                            | system spec   | August 1984    | SR69                            | system spec   | September 1989 |
| R53                             | physical spec | December 1986  | TR69                            | system spec   | September 1989 |
| LR53                            | system spec   | July 1982      | R0772                           | physical spec | September 1989 |
| R54                             | physical spec | December 1986  | CR0772                          | system spec   | September 1989 |
| LR54                            | system spec   | September 1989 | R1220                           | physical spec | December 1986  |
| MR54                            | system spec   | September 1989 | CR1220                          | system spec   | September 1989 |
| SR54                            | system spec   | September 1989 | R1620                           | physical spec | December 1986  |
| TR54                            | system spec   | December 1986  | CR1620                          | system spec   | September 1989 |
| R55                             | physical spec | August 1984    | R2016                           | physical spec | December 1986  |
| LR55                            | system spec   | August 1984    | CR2016                          | system spec   | September 1989 |
| SR55                            | system spec   | December 1986  | R2020                           | physical spec | December 1986  |
| TR55                            | system spec   | December 1986  | CR2020                          | system spec   | September 1989 |
| R56                             | physical spec | August 1984    | R2025                           | physical spec | December 1986  |
| LR56                            | system spec   | September 1989 | CR2025                          | system spec   | September 1989 |
| SR56                            | system spec   | December 1980  | R2032                           | physical spec | December 1986  |
| R57                             | physical spec | August 1984    | CR2032                          | system spec   | September 1989 |
| SR57                            | system spec   | December 1980  | R2320                           | physical spec | December 1986  |
| TR57                            | system spec   | December 1986  | CR2320                          | system spec   | September 1989 |
| R58                             | physical spec | August 1984    | R2420                           | physical spec | December 1986  |
| SR58                            | system spec   | December 1986  | CR2420                          | system spec   | September 1989 |
| TR58                            | system spec   | December 1986  | R2425                           | physical spec | December 1986  |
| R59                             | physical spec | August 1984    | CR2425                          | system spec   | September 1989 |
| SR59                            | system spec   | July 1982      | R2430                           | physical spec | December 1986  |
| TR59                            | system spec   | December 1986  | CR2430                          | system spec   | September 1989 |
| R60                             | physical spec | August 1984    | R11108                          | physical spec | September 1989 |
| SR60                            | system spec   | December 1986  | CR11108                         | system spec   | September 1989 |
| TR60                            | system spec   | December 1986  | 2CR11108                        | system spec   | September 1989 |
| 4R61                            | physical spec | September 1989 | R12600                          | physical spec | September 1989 |
| 6R61                            | physical spec | December 1986  | CR12600                         | system spec   | September 1989 |
| 6LR61                           | system spec   | July 1982      | S4                              | physical spec | July 1982      |
| R62                             | physical spec | September 1989 | S4                              | system spec   | July 1982      |
| SR62                            | system spec   | September 1989 | 6S4                             | physical spec | December 1986  |
| TR62                            | system spec   | September 1989 | 6AS4                            | system spec   | September 1989 |
| R63                             | physical spec | September 1989 | 6S6                             | physical spec | December 1986  |
| SR63                            | system spec   | September 1989 | 6AS6                            | system spec   | September 1989 |
| TR63                            | system spec   | September 1989 | 10F15                           | physical spec | July 1982      |
| R64                             | physical spec | September 1989 | 10F15                           | system spec   | July 1982      |
| SR64                            | system spec   | September 1989 | 15F15                           | physical spec | July 1982      |
| TR64                            | system spec   | September 1989 | 15F15                           | system spec   | July 1982      |
| R65                             | physical spec | September 1989 | 4F16                            | physical spec | July 1982      |
| LR65                            | system spec   | September 1989 | 4F16                            | system spec   | July 1982      |
| SR65                            | system spec   | September 1989 | 10F20                           | physical spec | July 1982      |
| TR65                            | system spec   | September 1989 | 10F20                           | system spec   | July 1982      |
| R66                             | physical spec | September 1989 | 15F20                           | physical spec | July 1982      |
| LR66                            | system spec   | September 1989 | 15F20                           | system spec   | July 1982      |
| SR66                            | system spec   | September 1989 | 20F20                           | physical spec | July 1982      |
| TR66                            | system spec   | September 1989 | 20F20                           | system spec   | July 1982      |
| R67                             | physical spec | September 1989 | 6F22                            | system spec   | August 1984    |
| LR67                            | system spec   | September 1989 | 6F24                            | physical spec | July 1982      |
| SR67                            | system spec   | September 1989 | 6F24                            | system spec   | July 1982      |
| TR67                            | system spec   | September 1989 | 6F50 2                          | physical spec | July 1982      |
| R68                             | physical spec | September 1989 | 6F50 2                          | system spec   | July 1982      |
| LR68                            | system spec   | September 1989 | 6F100                           | physical spec | July 1982      |
| SR68                            | system spec   | September 1989 | 6F100                           | system spec   | August 1984    |
| TR68                            | system spec   | September 1989 |                                 |               |                |

# PILES ÉLECTRIQUES

## Deuxième partie: Feuilles de spécifications

### GÉNÉRALITÉS

#### 1 Feuilles de spécifications des piles

Chaque spécification de pile comporte deux feuilles

##### 1 1 *Feuille de spécification physique*

La feuille de spécification physique donne à la fois les dimensions, le type de connexion, ainsi que toutes les autres caractéristiques physiques. Elle donne également le couple électrochimique et les performances des différentes piles qui ont les mêmes caractéristiques physiques.

##### 1 2 *Feuille de spécification du couple*

La feuille de spécification du couple donne la tension, les résultats de décharges, les performances requises de chaque couple électrochimique ou de ses variantes.

#### 2 Code de référence pour les feuilles de spécifications

Le code de référence utilisé pour les feuilles de spécifications comprend deux parties

Une référence à cette spécification, c'est-à-dire 86-2-IEC, suivi par la désignation de la pile

#### 3 Date d'émission

En plus du code ci-dessous, chaque feuille comporte la date d'émission

#### 4 Dessins

Bien que les dessins contenus dans les feuilles de spécifications physiques soient à l'échelle, on ne doit pas essayer d'estimer les dimensions qui ne sont pas spécifiées.

#### 5 Ordre des feuilles de spécifications

L'ordre des feuilles de spécifications est donné dans le tableau «Recueil et liste récapitulative des feuilles de spécifications», pages 8 et 10. Ce tableau prend pour base l'ordre des dimensions des piles donné dans la Publication 86-1 de la CEI, tableaux I, Ia, II et III. Si, pour la pile de même dimension, il y a plusieurs systèmes électrochimiques, l'ordre des feuilles de spécifications est donné par la séquence du système de lettres de la Publication 86-1 de la CEI, paragraphe 3.2 et, dans le cas d'un même système électrochimique, par les lettres C, P et S (après le code dimensionnel de la pile) indiquant les différents niveaux de performances électriques.

#### 6 Références

Sauf si cela est mentionné, toutes les références données dans cette norme se rapportent à la Publication 86-1 de la CEI, sixième édition, parue en 1987.

|                                                                                                                                                                           |                                               |                                                                                    |                                    |                                                                    |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------|----------------------------|
| I E C<br><br>C E I                                                                                                                                                        | Pile LR03                                     |                                                                                    | Battery LR03                       |                                                                    | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                           |                                               |                                                                                    |                                    |                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                           | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                                                                    |                                    |                                                                    | 86-2-IEC-LR03              |
| Décharges                                                                                                                                                                 |                                               |                                                                                    |                                    |                                                                    | Discharges                 |
| Conditions                                                                                                                                                                |                                               |                                                                                    | Durée minimale<br>Minimum duration |                                                                    | Applications               |
| Résistance<br>Resistance<br><br>(Ω)                                                                                                                                       | Cycle<br>journalier<br><br>Daily<br>period    | Tension<br>d'arrêt<br><br>End<br>point<br>(V)                                      | Initiale<br><br>Initial            | Après 12<br>mois de<br>magasinage<br>After 12<br>months<br>storage |                            |
| 3,9                                                                                                                                                                       | 5 min                                         | 0,9                                                                                |                                    |                                                                    |                            |
| 300                                                                                                                                                                       | 12 h                                          | 0,9                                                                                | 156 h                              | 120 h                                                              |                            |
| 3,6                                                                                                                                                                       | 1)                                            | 0,9                                                                                |                                    |                                                                    |                            |
| 1) 15 s commençant à des intervalles d'une minute pendant 24 h par jour<br>15 s at intervals of one minute for 24 h per day                                               |                                               |                                                                                    |                                    |                                                                    |                            |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R03<br>For the physical details of this battery see<br>physical specification sheet R03 |                                               |                                                                                    |                                    |                                                                    |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1                                                           |                                               |                                                                                    |                                    |                                                                    |                            |
| 86-2-IEC-LR03                                                                                                                                                             |                                               | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                    |                                                                    |                            |

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| I E C<br><br>C E I                                                                                                                                                                                                                                                                         | Pile R6C<br>(grande capacité)                 |                                         | Battery R6C<br>(high capacity)                                                     |                                                              | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                            | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                         |                                                                                    |                                                              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                            |                                               |                                         |                                                                                    |                                                              | 86-2-IEC-R6C               |
| Essais de conformité - Conformance tests                                                                                                                                                                                                                                                   |                                               |                                         |                                                                                    |                                                              |                            |
| Conditions                                                                                                                                                                                                                                                                                 |                                               |                                         |                                                                                    | Durées moyennes minimales 1)<br>Minimum average durations 1) |                            |
| Résistance<br>Resistance<br><br>(Ω)                                                                                                                                                                                                                                                        | Cycle journalier<br>Daily period              | Tension d'arrêt<br>End point<br><br>(V) | Initiale<br>Initial                                                                | Après 12 mois de<br>magasinage<br>After 12 months<br>storage |                            |
| 300                                                                                                                                                                                                                                                                                        | 12 h                                          | 0,9                                     | 216 h                                                                              | 173 h                                                        |                            |
| Essais d'application - Application tests                                                                                                                                                                                                                                                   |                                               |                                         |                                                                                    |                                                              |                            |
| Conditions                                                                                                                                                                                                                                                                                 |                                               |                                         |                                                                                    |                                                              |                            |
| Résistance<br>Resistance<br>(Ω)                                                                                                                                                                                                                                                            | Cycle journalier<br>Daily period              | Tension d'arrêt<br>End point<br>(V)     | Applications                                                                       |                                                              |                            |
| 75                                                                                                                                                                                                                                                                                         | 4 h                                           | 0,9                                     | Postes à transistors<br>Transistor radios                                          |                                                              |                            |
| 3,9                                                                                                                                                                                                                                                                                        | 5 min                                         | 0,9                                     | Eclairage portatif<br>Portable lighting                                            |                                                              |                            |
| 300                                                                                                                                                                                                                                                                                        | 12 h                                          | 0,9                                     | Appareils de correction<br>auditive<br>Hearing aids                                |                                                              |                            |
| 6,8 k                                                                                                                                                                                                                                                                                      | 24 h                                          | 1,3                                     | Pendules Q S M *<br>Clocks Q S M *                                                 |                                                              |                            |
| 3,3 k                                                                                                                                                                                                                                                                                      | 24 h                                          | 1,3                                     | 2)                                                                                 |                                                              |                            |
| 15                                                                                                                                                                                                                                                                                         | 30 min                                        | 0,9                                     | Calculatrices de poche<br>Pocket calculators                                       |                                                              |                            |
| 3,9                                                                                                                                                                                                                                                                                        | 5 min                                         | 0,8                                     | Rasoirs et brosses à dents<br>Razors and tooth brushes                             |                                                              |                            |
| 1) Conditions normales<br>1) Standard conditions<br>2) Essai d'application accéléré pour pendules (Q S M )<br>Accelerated application test for clocks (Q S M )                                                                                                                             |                                               |                                         |                                                                                    |                                                              |                            |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R6<br>For the physical details of this battery see<br>physical specification sheet R6<br>Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1 |                                               |                                         |                                                                                    |                                                              |                            |
| 86-2-IEC-R6C                                                                                                                                                                                                                                                                               |                                               |                                         | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                              |                            |

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| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                                                                                                                                                           | Pile R6P<br>(forte puissance)                 |                                                                                    | Battery R6P<br>(high power)                            |                                                              | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                                                                    |                                                        |                                                              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               |                                                                                    |                                                        |                                                              | 86-2-IEC-R6P               |
| Essais de conformité - Conformance tests                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                                                                    |                                                        |                                                              |                            |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |                                                                                    |                                                        | Durées moyennes minimales 1)<br>Minimum average durations 1) |                            |
| Résistance<br>Resistance<br><br>(Ω)                                                                                                                                                                                                                                                                                                                                                                                                                          | Cycle journalier<br>Daily period              | Tension d'arrêt<br>End point<br><br>(V)                                            | Initiale<br>Initial                                    | Après 12 mois de<br>magasinage<br>After 12 months<br>storage |                            |
| 300                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12 h                                          | 0,9                                                                                | 216 h                                                  | 173 h                                                        |                            |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 h                                           | 0,9                                                                                | 4 h                                                    | 3 h                                                          |                            |
| Essais d'application - Application tests                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                                                                    |                                                        |                                                              |                            |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |                                                                                    |                                                        |                                                              |                            |
| Résistance<br>Resistance<br><br>(Ω)                                                                                                                                                                                                                                                                                                                                                                                                                          | Cycle journalier<br>Daily period              | Tension d'arrêt<br>End point<br><br>(V)                                            | Applications                                           |                                                              |                            |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4 h                                           | 0,9                                                                                | Postes à transistors<br>Transistor radios              |                                                              |                            |
| 3,9                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5 min                                         | 0,9                                                                                | Eclairage portatif<br>Portable lighting                |                                                              |                            |
| 300                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12 h                                          | 0,9                                                                                | Appareils de correction<br>auditive<br>Hearing aids    |                                                              |                            |
| 6,8 k                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 24 h                                          | 1,3                                                                                | Pendules Q S M *<br>Clocks Q S M *                     |                                                              |                            |
| 3,3 k                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 24 h                                          | 1,3                                                                                | 2)                                                     |                                                              |                            |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30 min                                        | 0,9                                                                                | Calculatrices de poche<br>Pocket calculators           |                                                              |                            |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 h                                           | 0,9                                                                                | Magnétophones<br>Tape recorders                        |                                                              |                            |
| 3,9                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5 min                                         | 0,8                                                                                | Rasoirs et brosses à dents<br>Razors and tooth brushes |                                                              |                            |
| 3,9                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5 min                                         | 1,0                                                                                | Caméras cinématographiques<br>Cine cameras             |                                                              |                            |
| 1) Conditions normales<br>1) Standard conditions<br>2) Essai d'application accéléré pour pendules (Q S M )<br>Accelerated application test for clocks (Q S M )<br>Pour plus de détails sur cette pile, voir la feuille de spécification<br>physique R6<br>For the physical details of this battery see physical specification<br>sheet R6<br>Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1 |                                               |                                                                                    |                                                        |                                                              |                            |
| 86-2-IEC-R6P                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                        |                                                              |                            |

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| I E C<br><br>C E I                                                                                                                                                                                                                                                                   | Pile R6S<br>(normale)                         |                                         | Battery R6S<br>(standard)                                                          |                                                              | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                      | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                         |                                                                                    |                                                              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                      |                                               |                                         |                                                                                    |                                                              | 86-2-IEC-R6S               |
| Essais de conformité - Conformance tests                                                                                                                                                                                                                                             |                                               |                                         |                                                                                    |                                                              |                            |
| Conditions                                                                                                                                                                                                                                                                           |                                               |                                         |                                                                                    | Durées moyennes minimales 1)<br>Minimum average durations 1) |                            |
| Résistance<br>Resistance<br><br>(Ω)                                                                                                                                                                                                                                                  | Cycle journalier<br>Daily period              | Tension d'arrêt<br>End point<br><br>(V) | Initiale<br>Initial                                                                | Après 12 mois de<br>magasinage<br>After 12 months<br>storage |                            |
| 300                                                                                                                                                                                                                                                                                  | 12 h                                          | 0,9                                     | 168 h                                                                              | 134 h                                                        |                            |
| Essais d'application - Application tests                                                                                                                                                                                                                                             |                                               |                                         |                                                                                    |                                                              |                            |
| Conditions                                                                                                                                                                                                                                                                           |                                               |                                         |                                                                                    |                                                              |                            |
| Résistance<br>Resistance<br>(Ω)                                                                                                                                                                                                                                                      | Cycle journalier<br>Daily period              | Tension d'arrêt<br>End point<br>(V)     | Applications                                                                       |                                                              |                            |
| 75                                                                                                                                                                                                                                                                                   | 4 h                                           | 0,9                                     | Postes à transistors<br>Transistor radios                                          |                                                              |                            |
| 3,9                                                                                                                                                                                                                                                                                  | 5 min                                         | 0,9                                     | Eclairage portatif<br>Portable lighting                                            |                                                              |                            |
| 300                                                                                                                                                                                                                                                                                  | 12 h                                          | 0,9                                     | Appareils de correction<br>auditive<br>Hearing aids                                |                                                              |                            |
| 6,8 k                                                                                                                                                                                                                                                                                | 24 h                                          | 1,3                                     | Pendules Q S M *<br>Clocks Q S M *                                                 |                                                              |                            |
| 3,3 k                                                                                                                                                                                                                                                                                | 24 h                                          | 1,3                                     | 2)                                                                                 |                                                              |                            |
| 3,9                                                                                                                                                                                                                                                                                  | 5 min                                         | 0,8                                     | Rasoirs et brosses à dents<br>Razors and tooth-brushes                             |                                                              |                            |
| 1) Conditions normales<br>Standard conditions                                                                                                                                                                                                                                        |                                               |                                         |                                                                                    |                                                              |                            |
| 2) Essai d'application accéléré pour pendules (Q S M )<br>Accelerated application test for clocks (Q S M )                                                                                                                                                                           |                                               |                                         |                                                                                    |                                                              |                            |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R6<br>For the physical details of this battery see physical specification sheet R6<br>Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1 |                                               |                                         |                                                                                    |                                                              |                            |
| 86-2-IEC-R6S                                                                                                                                                                                                                                                                         |                                               |                                         | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                              |                            |

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| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Pile LR6                                      |                                               | Battery LR6                                                                        |                                                                    | SPECIFICATION<br>DU COUPLE                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                               |                                                                                    |                                                                    | SYSTEM<br>SPECIFICATION                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                               |                                                                                    |                                                                    | 86-2-IEC-LR6                                           |
| Décharges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                               |                                               |                                                                                    |                                                                    | Discharges                                             |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |                                               | Durées moyennes<br>minimales 1)<br>Minimum average<br>durations 1)                 |                                                                    | Application                                            |
| Résistance<br>Resistance<br><br>(Ω)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cycle<br>journalier<br>Daily<br>period        | Tension<br>d'arrêt<br>End<br>point<br><br>(V) | Initiale<br>Initial                                                                | Après<br>12 mois de<br>magasinage<br>After 12<br>months<br>storage |                                                        |
| 3,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5 min                                         | 0,9                                           |                                                                                    |                                                                    | Eclairage portatif<br>Portable lighting                |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4 h                                           | 0,9                                           | 88 h                                                                               | 79 h                                                               | Postes à transistors<br>Transistor radios              |
| 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12 h                                          | 0,9                                           | 372 h                                                                              | 335 h                                                              | Appareils de correction<br>auditive<br>Hearing aids    |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30 min                                        | 0,9                                           |                                                                                    |                                                                    | Calculatrices de poche<br>Pocket calculators           |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 h                                           | 0,9                                           |                                                                                    |                                                                    | Magnétophones<br>Tape recorders                        |
| 3,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5 min                                         | 0,8                                           |                                                                                    |                                                                    | Rasoirs et brosses à dents<br>Razors and tooth brushes |
| 3,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5 min                                         | 1,0                                           |                                                                                    |                                                                    | Caméras cinématographiques<br>Cine cameras             |
| 6,8 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 24 h                                          | 1,3                                           |                                                                                    |                                                                    | Pendules (Q S M ) *<br>Clocks (Q S M ) *               |
| 3,3 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 24 h                                          | 1,3                                           |                                                                                    |                                                                    | 2)                                                     |
| 1,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3)                                            | 0,9                                           |                                                                                    |                                                                    | Essai d'impulsions<br>Pulse test                       |
| 1) Conditions normales<br>1) Standard conditions<br>2) Essai d'application accéléré pour pendules (Q S M )<br>Accelerated application test for clocks (Q S M )<br>3) 15 s commençant à des intervalles d'une minute pendant 24 h par jour<br>15 s at intervals of one minute for 24 h per day<br><br>Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R6<br>For the physical details of this battery see<br>physical specification sheet R6<br><br>Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1 |                                               |                                               |                                                                                    |                                                                    |                                                        |
| 86-2-IEC-LR6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                                               | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                                    |                                                        |

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|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|------------------------------------|----------------------------|
| I E C<br><br>C E I                                                                                              | Pile MR9                                        |                                           | Battery MR9                                                                        |                                    | SPECIFICATION<br>DU COUPLE |
|                                                                                                                 | Tension nominale 1,35 V, Nominal voltage 1 35 V |                                           |                                                                                    |                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                 |                                                 |                                           |                                                                                    |                                    | 86-2-IEC-MR9               |
| Décharges                                                                                                       |                                                 |                                           |                                                                                    |                                    | Discharges                 |
| Conditions                                                                                                      |                                                 |                                           |                                                                                    | Applications                       |                            |
| Résistance<br>Resistance<br><br>(Ω)                                                                             | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |                                    |                            |
| 390                                                                                                             | 24 h                                            | 0,9                                       |                                                                                    | Essai de capacité<br>Capacity test |                            |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R9                            |                                                 |                                           |                                                                                    |                                    |                            |
| For the physical details of this battery see<br>physical specification sheet R9                                 |                                                 |                                           |                                                                                    |                                    |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1 |                                                 |                                           |                                                                                    |                                    |                            |
| 86-2-IEC-MR9                                                                                                    |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                    |                            |

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|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------|
| I E C<br><br>C E I                                                                                              | Pile R14C<br>(grande capacité)                |                                         | Battery R14C<br>(high capacity)                                                    |                                                              | SPECIFICATION<br>DU COUPLE |
|                                                                                                                 | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                         |                                                                                    |                                                              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                 |                                               |                                         |                                                                                    |                                                              | 86-2-IEC-R14C              |
| Essais de conformité - Conformance tests                                                                        |                                               |                                         |                                                                                    |                                                              |                            |
| Conditions                                                                                                      |                                               |                                         | Durées moyennes minimales 1)<br>Minimum average durations 1)                       |                                                              |                            |
| Résistance<br>Resistance<br><br>(Ω)                                                                             | Cycle journalier<br>Daily period              | Tension d'arrêt<br>End point<br><br>(V) | Initiale<br>Initial                                                                | Après 12 mois de<br>magasinage<br>After 12 months<br>storage |                            |
| 75                                                                                                              | 4 h                                           | 0,9                                     | 148 h                                                                              | 118 h                                                        |                            |
| Essais d'application - Application tests                                                                        |                                               |                                         |                                                                                    |                                                              |                            |
| Conditions                                                                                                      |                                               |                                         |                                                                                    |                                                              |                            |
| Résistance<br>Resistance<br>(Ω)                                                                                 | Cycle journalier<br>Daily period              | Tension d'arrêt<br>End point<br>(V)     | Applications                                                                       |                                                              |                            |
| 39                                                                                                              | 4 h                                           | 0,9                                     | Postes à transistors<br>Transistor radios                                          |                                                              |                            |
| 3,9                                                                                                             | 10 min                                        | 0,9                                     | Eclairage portatif<br>Portable lighting                                            |                                                              |                            |
| 6,8 k                                                                                                           | 24 h                                          | 1,3                                     | Pendules (Q S M )<br>Clocks (Q S M )                                               |                                                              |                            |
| 1,5 k                                                                                                           | 24 h                                          | 1,3                                     | 2)                                                                                 |                                                              |                            |
| 1) Conditions normales<br>1) Standard conditions                                                                |                                               |                                         |                                                                                    |                                                              |                            |
| 2) Essai d'application accéléré pour pendules (Q S M )<br>Accelerated application test for clocks (Q S M )      |                                               |                                         |                                                                                    |                                                              |                            |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R14                           |                                               |                                         |                                                                                    |                                                              |                            |
| For the physical details of this battery see<br>physical specification sheet R14                                |                                               |                                         |                                                                                    |                                                              |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1 |                                               |                                         |                                                                                    |                                                              |                            |
| 86-2-IEC-R14C                                                                                                   |                                               |                                         | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                              |                            |

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|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|----------------------------|
| I E C<br><br>C E I                                                                                              | Pile R14P<br>(forte puissance)                |                                                                                    | Battery R14P<br>(high power)                                 |                                                              | SPECIFICATION<br>DU COUPLE |
|                                                                                                                 | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                                                                    |                                                              |                                                              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                 |                                               |                                                                                    |                                                              |                                                              | 86-2-IEC-R14P              |
| Essais de conformité - Conformance tests                                                                        |                                               |                                                                                    |                                                              |                                                              |                            |
| Conditions                                                                                                      |                                               |                                                                                    | Durées moyennes minimales 1)<br>Minimum average durations 1) |                                                              |                            |
| Résistance<br>Resistance<br><br>(Ω)                                                                             | Cycle journalier<br>Daily period              | Tension d'arrêt<br>End point<br><br>(V)                                            | Initiale<br>Initial                                          | Après 12 mois de<br>magasinage<br>After 12 months<br>storage |                            |
| 75                                                                                                              | 4 h                                           | 0,9                                                                                | 148 h                                                        | 118 h                                                        |                            |
| 6,8                                                                                                             | 1 h                                           | 1,0                                                                                | 8 h                                                          | 6 h                                                          |                            |
| Essais d'application - Application tests                                                                        |                                               |                                                                                    |                                                              |                                                              |                            |
| Conditions                                                                                                      |                                               |                                                                                    |                                                              |                                                              |                            |
| Résistance<br>Resistance<br>(Ω)                                                                                 | Cycle journalier<br>Daily period              | Tension d'arrêt<br>End point<br>(V)                                                | Applications                                                 |                                                              |                            |
| 39                                                                                                              | 4 h                                           | 0,9                                                                                | Postes à transistors<br>Transistor radios                    |                                                              |                            |
| 3,9                                                                                                             | 10 min                                        | 0,9                                                                                | Eclairage portatif<br>Portable lighting                      |                                                              |                            |
| 6,8 k                                                                                                           | 24 h                                          | 1,3                                                                                | Pendules (Q S M )<br>Clocks (Q S M )                         |                                                              |                            |
| 1,5 k                                                                                                           | 24 h                                          | 1,3                                                                                | 2)                                                           |                                                              |                            |
| 6,8                                                                                                             | 1 h                                           | 1,0                                                                                | Magnétophones<br>Tape recorders                              |                                                              |                            |
| 3,9                                                                                                             | 1 h                                           | 0,8                                                                                | Jouets<br>Toys                                               |                                                              |                            |
| 1) Conditions normales<br>1) Standard conditions                                                                |                                               |                                                                                    |                                                              |                                                              |                            |
| 2) Essai d'application accéléré pour pendules (Q S M )<br>Accelerated application test for clocks (Q S M )      |                                               |                                                                                    |                                                              |                                                              |                            |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R14                           |                                               |                                                                                    |                                                              |                                                              |                            |
| For the physical details of this battery see<br>physical specification sheet R14                                |                                               |                                                                                    |                                                              |                                                              |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1 |                                               |                                                                                    |                                                              |                                                              |                            |
| 86-2-IEC-R14P                                                                                                   |                                               | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                              |                                                              |                            |

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| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pile R14S<br>(normale)                        |                                                                                    | Battery R14S<br>(standard)                                   |                                                              | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                                                                    |                                                              |                                                              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |                                                                                    |                                                              |                                                              | 86-2-IEC-R14S              |
| Essais de conformité - Conformance tests                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |                                                                                    |                                                              |                                                              |                            |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                                                                    | Durées moyennes minimales 1)<br>Minimum average durations 1) |                                                              |                            |
| Résistance<br>Resistance<br><br>(Ω)                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cycle journalier<br>Daily period              | Tension d'arrêt<br>End point<br><br>(V)                                            | Initiale<br>Initial                                          | Après 12 mois de<br>magasinage<br>After 12 months<br>storage |                            |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4 h                                           | 0,9                                                                                | 112 h                                                        | 90 h                                                         |                            |
| Essais d'application - Application tests                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |                                                                                    |                                                              |                                                              |                            |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                                                                    | Applications                                                 |                                                              |                            |
| Résistance<br>Resistance<br>(Ω)                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cycle journalier<br>Daily period              | Tension d'arrêt<br>End point<br>(V)                                                |                                                              |                                                              |                            |
| 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4 h                                           | 0,9                                                                                | Postes à transistors<br>Transistor radios                    |                                                              |                            |
| 3,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10 min                                        | 0,9                                                                                | Eclairage portatif<br>Portable lighting                      |                                                              |                            |
| 6,8 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 24 h                                          | 1,3                                                                                | Pendules (Q S M )<br>Clocks (Q S M )                         |                                                              |                            |
| 1,5 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 24 h                                          | 1,3                                                                                | 2)                                                           |                                                              |                            |
| 1) Conditions normales<br>1) Standard conditions<br><br>2) Essai d'application accéléré pour pendules (Q S M )<br>Accelerated application test for clocks (Q S M )<br><br>Pour plus de détails sui cette pile, voir la<br>feuille de spécification physique R14<br><br>For the physical details of this battery see<br>physical specification sheet R14<br><br>Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1 |                                               |                                                                                    |                                                              |                                                              |                            |
| 86-2-IEC-R14S                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                               | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                              |                                                              |                            |

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| I E C<br><br>C E I                                                                                                                                                                             | Pile LR14                                     |                                    |                                                                    |                                                                                    | Battery LR14                              |             | SPECIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                | Tension nominale 1,5 V, Nominal voltage 1,5 V |                                    |                                                                    |                                                                                    |                                           |             | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                |                                               |                                    |                                                                    |                                                                                    |                                           |             | 86-2-IEC-LR14              |  |
| <div>Décharges</div> <div>Discharges</div>                                                                                                                                                     |                                               |                                    |                                                                    |                                                                                    |                                           |             |                            |  |
| Conditions                                                                                                                                                                                     |                                               |                                    | Durées moyennes<br>minimales 1)<br>Minimum average<br>durations 1) |                                                                                    |                                           | Application |                            |  |
| Résistance<br>Resistance                                                                                                                                                                       | Cycle<br>journalier<br>Daily<br>period        | Tension<br>d'arrêt<br>End<br>point | Initiale<br>Initial                                                | Après<br>12 mois de<br>magasinage<br>After 12<br>months<br>storage                 |                                           |             |                            |  |
| (Ω)                                                                                                                                                                                            |                                               | (V)                                |                                                                    |                                                                                    |                                           |             |                            |  |
| 3,9                                                                                                                                                                                            | 10                                            | 0,9                                |                                                                    |                                                                                    | Eclairage portatif<br>Portable lighting   |             |                            |  |
| 39                                                                                                                                                                                             | 4 h                                           | 0,9                                |                                                                    |                                                                                    | Postes à transistors<br>Transistor radios |             |                            |  |
| 6,8                                                                                                                                                                                            | 1 h                                           | 1,0                                | 17 h                                                               | 15 h                                                                               | Magnétophones<br>Tape recorders           |             |                            |  |
| 3,9                                                                                                                                                                                            | 1 h                                           | 0,8                                |                                                                    |                                                                                    | Jouets<br>Toys                            |             |                            |  |
| 6,8 k                                                                                                                                                                                          | 24 h                                          | 1,3                                |                                                                    |                                                                                    | Pendules (Q S M ) *<br>Clocks (Q S M ) *  |             |                            |  |
| 1,5 k                                                                                                                                                                                          | 24 h                                          | 1,3                                |                                                                    |                                                                                    | 2)                                        |             |                            |  |
| <div>1) Conditions normales<br/>1) Standard conditions</div> <div>2) Essai d'application accéléré pour pendules (Q S M )<br/>Accelerated application test for clocks (Q S M )</div>            |                                               |                                    |                                                                    |                                                                                    |                                           |             |                            |  |
| <div>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R14</div> <div>For the physical details of this battery see<br/>physical specification sheet R14</div> |                                               |                                    |                                                                    |                                                                                    |                                           |             |                            |  |
| <div>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</div>                                                                    |                                               |                                    |                                                                    |                                                                                    |                                           |             |                            |  |
| 86-2-IEC-LR14                                                                                                                                                                                  |                                               |                                    |                                                                    | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                           |             |                            |  |

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| I E C<br><br>C E I | Pile 4R25X | Battery 4R25X | SPECIFICATION<br>PHYSIQUE |
|                    |            |               | PHYSICAL<br>SPECIFICATION |
|                    |            |               | 86-2-IEC-4R25X            |

Dimensions (en millimètres)

Dimensions (in millimetres)

Organes de connexion  
Terminals

Ressorts en spirale ayant au minimum 3 spires compressibles à moins de 3 mm de la surface plane du bac  
Spiral springs having at least 3 complete windings compressible to within 3 mm of the flat surface of the box

Echelle 1/2  
Scale 1/2

Ressorts en spirale conique  
Conical spiral wire spring terminals

La pile possède des coins coupés ou arrondis elle doit passer librement dans un gabarit ayant un diamètre de 82,6 mm

This battery has rounded or bevelled corners and must pass freely through a gauge having a diameter of 82,6 mm

Les piles correspondant à cette  
feuille de spécification physique sont  
Batteries complying with this specification are

4R25X, 4LR25X

Pour information générale, voir Publication 86-1 de la CEI  
For general information, see IEC Publication 86-1

86-2-IEC-4R25X

Publication 86-2 de la CEI- Septembre 1989  
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| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Pile 4LR25X                                   |                                               |                                                                    |                                                                    | Battery 4LR25X                          |  | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Tension nominale 6,0 V, Nominal voltage 6 0 V |                                               |                                                                    |                                                                    |                                         |  | SYSTEM<br>SPECIFICATION    |
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|--------------------|---------------------------------------------------|--|--|--|----------------------------|
| I E C<br><br>C E I | Pile 4LR25-2                      Battery 4LR25-2 |  |  |  | SPECIFICATION<br>DU COUPLE |
|                    | Tension nominale 6,0 V,    Nominal voltage 6 0 V  |  |  |  | SYSTEM<br>SPECIFICATION    |
|                    |                                                   |  |  |  | 86-2-IEC-4LR25-2           |
| Décharges          |                                                   |  |  |  |                            |

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| I E C<br><br>C E I                                                                                                                                                                                                                                                                                | Pile 5AR40                                    |                                               |                                                                                    |                                                                    | Battery 5AR40                                                       |              | SPECIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                   | Tension nominale 7,0 V, Nominal voltage 7 0 V |                                               |                                                                                    |                                                                    |                                                                     |              | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                   |                                               |                                               |                                                                                    |                                                                    |                                                                     |              | 86-2-IEC-5AR40             |  |
| Décharges                                                                                                                                                                                                                                                                                         |                                               |                                               |                                                                                    |                                                                    |                                                                     |              | Discharges                 |  |
| Conditions                                                                                                                                                                                                                                                                                        |                                               |                                               | Durée minimale<br><br>Minimum duration                                             |                                                                    |                                                                     | Applications |                            |  |
| Résistance<br><br>Resistance<br><br><br>(Ω)                                                                                                                                                                                                                                                       | Cycle<br>journalier<br><br>Daily<br>period    | Tension<br>d'arrêt<br><br>End<br>point<br>(V) | Initiale<br><br>Initial                                                            | Après 12<br>mois de<br>magasinage<br>After 12<br>months<br>storage |                                                                     |              |                            |  |
| 240                                                                                                                                                                                                                                                                                               | 24 h                                          | 4,5                                           | 120 jours<br>120 days                                                              | 96 jours<br>96 days                                                | Appareils de clôture<br>électrique<br>Electric fence<br>controllers |              |                            |  |
| <p>L'attention des constructeurs d'appareils est attirée sur l'importance d'assurer que l'accès de l'air n'est pas empêché pour les piles du système "A"</p> <p>Equipment designers' attention is drawn to the importance of ensuring that air access is not impeded for "A" system batteries</p> |                                               |                                               |                                                                                    |                                                                    |                                                                     |              |                            |  |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique 5R40</p> <p>For the physical details of this battery see physical specification sheet 5R40</p>                                                                                                                  |                                               |                                               |                                                                                    |                                                                    |                                                                     |              |                            |  |
| <p>Pour information générale, voir Publication 86-1 de la CEI</p> <p>For general information, see IEC Publication 86-1</p>                                                                                                                                                                        |                                               |                                               |                                                                                    |                                                                    |                                                                     |              |                            |  |
| 86-2-IEC-5AR40                                                                                                                                                                                                                                                                                    |                                               |                                               | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                                    |                                                                     |              |                            |  |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--------------|------------------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile LR41                                     |                                           | Battery LR41                                                                       |              | SPECIFICATION<br>DU COUPLE         |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                           |                                                                                    |              | SYSTEM<br>SPECIFICATION            |
|                                                                                                                                                                                                                                                                                                                |                                               |                                           |                                                                                    |              | 86-2-IEC-LR41                      |
| Décharges                                                                                                                                                                                                                                                                                                      |                                               |                                           |                                                                                    |              | Discharges                         |
| Conditions                                                                                                                                                                                                                                                                                                     |                                               |                                           |                                                                                    | Applications |                                    |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period        | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                                    |
| 22                                                                                                                                                                                                                                                                                                             | 24 h                                          | 1,2                                       |                                                                                    |              |                                    |
|                                                                                                                                                                                                                                                                                                                |                                               |                                           |                                                                                    |              | Essai de capacité<br>Capacity test |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R41</p> <p>For the physical details of this battery see<br/>physical specification sheet R41</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                               |                                           |                                                                                    |              |                                    |
| 86-2-IEC-LR41                                                                                                                                                                                                                                                                                                  |                                               |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                                    |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--------------|----------------------------|
| I E C<br><br>C E I                                                                                                                                                            | Pile MR41                                       |                                           | Battery MR41                                                                       |              | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                               | Tension nominale 1,35 V, Nominal voltage 1 35 V |                                           |                                                                                    |              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                               |                                                 |                                           |                                                                                    |              | 86-2-IEC-MR41              |
| Décharges                                                                                                                                                                     |                                                 |                                           |                                                                                    |              | Discharges                 |
| Conditions                                                                                                                                                                    |                                                 |                                           |                                                                                    | Applications |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                          | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                            |
| 470                                                                                                                                                                           | 24 h                                            | 1,2                                       |                                                                                    |              |                            |
| 22                                                                                                                                                                            | 24 h                                            | 1,2                                       |                                                                                    |              |                            |
| 68                                                                                                                                                                            | 24 h                                            | 1,2                                       |                                                                                    |              |                            |
|                                                                                                                                                                               |                                                 |                                           | Montres électroniques<br>(Q S M )<br>Electronic watches (Q S M )                   |              |                            |
|                                                                                                                                                                               |                                                 |                                           | Essai de capacité<br>Capacity test                                                 |              |                            |
|                                                                                                                                                                               |                                                 |                                           | Essai de capacité<br>Capacity test                                                 |              |                            |
| NOTE Pour les essais d'acceptation, voir le paragraphe 8 5<br>de la Publication 86-1 de la CEI<br>For acceptance tests, see Sub-clause 8 5 of IEC Publication 86-1            |                                                 |                                           |                                                                                    |              |                            |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R41<br><br>For the physical details of this battery see<br>physical specification sheet R41 |                                                 |                                           |                                                                                    |              |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1                                                               |                                                 |                                           |                                                                                    |              |                            |
| 86-2-IEC-MR41                                                                                                                                                                 |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                            |

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| I E C<br>C E I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pile SR41                                       |                                                                                    | Battery SR41                                                            |  | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                                                                    |                                                                         |  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                 |                                                                                    |                                                                         |  | 86-2-IEC-SR41              |
| Décharges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |                                                                                    | Discharges                                                              |  |                            |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 |                                                                                    |                                                                         |  |                            |
| Résistance<br><i>Resistance</i><br><br>(kΩ)                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cycle<br>journalier<br><i>Daily<br/>period</i>  | Tension<br>d'arrêt<br><i>End<br/>point<br/>(V)</i>                                 | Applications                                                            |  |                            |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 24 h                                            | 1,2                                                                                | Montres électroniques<br>(Q S M )<br><i>Electronic watches (Q S M )</i> |  |                            |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24 h                                            | 1,2                                                                                | Essai de capacité<br><i>Capacity test</i>                               |  |                            |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24 h                                            | 1,2                                                                                | Essai de capacité<br><i>Capacity test</i>                               |  |                            |
| <p>NOTE Pour les essais d'acceptation, voir le paragraphe 8 5 de la Publication 86-1 de la CEI<br/> <i>For acceptance tests, see Sub-clause 8 5 of IEC Publication 86-1</i></p> <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R41<br/> <i>For the physical details of this battery see physical specification sheet R41</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/> <i>For general information, see IEC Publication 86-1</i></p> |                                                 |                                                                                    |                                                                         |  |                            |
| 86-2-IEC-SR41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                                         |  |                            |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------|
| I E C<br><br>C E I                                                                                                                                                            | Pile MR42                                       | Battery MR42                                                                       | SPECIFICATION<br>DU COUPLE                                       |
|                                                                                                                                                                               | Tension nominale 1,35 V, Nominal voltage 1 35 V |                                                                                    | SYSTEM<br>SPECIFICATION                                          |
|                                                                                                                                                                               |                                                 |                                                                                    | 86-2-IEC-MR42                                                    |
| Décharges                                                                                                                                                                     |                                                 |                                                                                    | Discharges                                                       |
| Conditions                                                                                                                                                                    |                                                 |                                                                                    | Applications                                                     |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                          | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V)                                          |                                                                  |
| 470                                                                                                                                                                           | 24 h                                            | 1,2                                                                                |                                                                  |
| 15                                                                                                                                                                            | 24 h                                            | 1,2                                                                                |                                                                  |
| 33                                                                                                                                                                            | 24 h                                            | 1,2                                                                                |                                                                  |
|                                                                                                                                                                               |                                                 |                                                                                    | Montres électroniques<br>(Q S M )<br>Electronic watches (Q S M ) |
|                                                                                                                                                                               |                                                 |                                                                                    | Essai de capacité<br>Capacity test                               |
|                                                                                                                                                                               |                                                 |                                                                                    | Essai de capacité<br>Capacity test                               |
| NOTE Pour les essais d'acceptation, voir le paragraphe 8 5<br>de la Publication 86-1 de la CEI<br>For acceptance tests, see Sub-clause 8 5 of IEC Publication 86-1            |                                                 |                                                                                    |                                                                  |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R42<br><br>For the physical details of this battery see<br>physical specification sheet R42 |                                                 |                                                                                    |                                                                  |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1                                                               |                                                 |                                                                                    |                                                                  |
| 86-2-IEC-MR42                                                                                                                                                                 |                                                 | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                                  |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--------------|----------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile NR42                                     |                                           | Battery NR42                                                                       |              | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,4 V, Nominal voltage 1 4 V |                                           |                                                                                    |              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                |                                               |                                           |                                                                                    |              | 86-2-IEC-NR42              |
| Décharges                                                                                                                                                                                                                                                                                                      |                                               |                                           |                                                                                    |              | Discharges                 |
| Conditions                                                                                                                                                                                                                                                                                                     |                                               |                                           |                                                                                    | Applications |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period        | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                            |
| 15                                                                                                                                                                                                                                                                                                             | 24 h                                          | 1,2                                       |                                                                                    |              |                            |
| 33                                                                                                                                                                                                                                                                                                             | 24 h                                          | 1,2                                       |                                                                                    |              |                            |
|                                                                                                                                                                                                                                                                                                                |                                               |                                           |                                                                                    |              |                            |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R42</p> <p>For the physical details of this battery see<br/>physical specification sheet R42</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                               |                                           |                                                                                    |              |                            |
| 86-2-IEC-NR42                                                                                                                                                                                                                                                                                                  |                                               |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                            |

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| I E C<br><br>C E I                                                                                                                                                            | Pile SR42                                       |                                           | Battery SR42                                                                       |              | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                               | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                           |                                                                                    |              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                               |                                                 |                                           |                                                                                    |              | 86-2-IEC-SR42              |
| Décharges                                                                                                                                                                     |                                                 |                                           |                                                                                    |              | Discharges                 |
| Conditions                                                                                                                                                                    |                                                 |                                           |                                                                                    | Applications |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                          | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                            |
| 470                                                                                                                                                                           | 24 h                                            | 1,2                                       |                                                                                    |              |                            |
| 15                                                                                                                                                                            | 24 h                                            | 1,2                                       |                                                                                    |              |                            |
| 33                                                                                                                                                                            | 24 h                                            | 1,2                                       |                                                                                    |              |                            |
|                                                                                                                                                                               |                                                 |                                           | Montres électroniques<br>(Q S M )<br>Electronic watches (Q S M )                   |              |                            |
|                                                                                                                                                                               |                                                 |                                           | Essai de capacité<br>Capacity test                                                 |              |                            |
|                                                                                                                                                                               |                                                 |                                           | Essai de capacité<br>Capacity test                                                 |              |                            |
| NOTE Pour les essais d'acceptation, voir le paragraphe 8 5<br>de la Publication 86-1 de la CEI<br>For acceptance tests, see Sub-clause 8 5 of IEC Publication 86-1            |                                                 |                                           |                                                                                    |              |                            |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R42<br><br>For the physical details of this battery see<br>physical specification sheet R42 |                                                 |                                           |                                                                                    |              |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1                                                               |                                                 |                                           |                                                                                    |              |                            |
| 86-2-IEC-SR42                                                                                                                                                                 |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                            |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--------------|------------------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile LR43                                     |                                           | Battery LR43                                                                       |              | SPECIFICATION<br>DU COUPLE         |
|                                                                                                                                                                                                                                                                                                                |                                               |                                           |                                                                                    |              | SYSTEM<br>SPECIFICATION            |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                           |                                                                                    |              | 86-2-IEC-LR43                      |
| Décharges                                                                                                                                                                                                                                                                                                      |                                               |                                           |                                                                                    |              | Discharges                         |
| Conditions                                                                                                                                                                                                                                                                                                     |                                               |                                           |                                                                                    | Applications |                                    |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period        | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                                    |
| 10                                                                                                                                                                                                                                                                                                             | 24 h                                          | 1,2                                       |                                                                                    |              |                                    |
|                                                                                                                                                                                                                                                                                                                |                                               |                                           |                                                                                    |              | Essai de capacité<br>Capacity test |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R43</p> <p>For the physical details of this battery see<br/>physical specification sheet R43</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                               |                                           |                                                                                    |              |                                    |
| 86-2-IEC-LR43                                                                                                                                                                                                                                                                                                  |                                               |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                                    |

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| I E C<br><br>C E I                                                                                                                                                            | Pile MR43                                       |                                           | Battery MR43                                                                       |              | SPECIFICATION<br>DU COUPLE                                       |
|                                                                                                                                                                               | Tension nominale 1,35 V, Nominal voltage 1 35 V |                                           |                                                                                    |              | SYSTEM<br>SPECIFICATION                                          |
|                                                                                                                                                                               |                                                 |                                           |                                                                                    |              | 86-2-IEC-MR43                                                    |
| Décharges                                                                                                                                                                     |                                                 |                                           |                                                                                    |              | Discharges                                                       |
| Conditions                                                                                                                                                                    |                                                 |                                           |                                                                                    | Applications |                                                                  |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                          | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                                                                  |
| 470                                                                                                                                                                           | 24 h                                            | 1,2                                       |                                                                                    |              |                                                                  |
| 10                                                                                                                                                                            | 24 h                                            | 1,2                                       |                                                                                    |              |                                                                  |
| 22                                                                                                                                                                            | 24 h                                            | 1,2                                       |                                                                                    |              |                                                                  |
|                                                                                                                                                                               |                                                 |                                           |                                                                                    |              | Montres électroniques<br>(Q S M )<br>Electronic watches (Q S M ) |
|                                                                                                                                                                               |                                                 |                                           |                                                                                    |              | Essai de capacité<br>Capacity test                               |
|                                                                                                                                                                               |                                                 |                                           |                                                                                    |              | Essai de capacité<br>Capacity test                               |
| NOTE Pour les essais d'acceptation, voir le paragraphe 8 5<br>de la Publication 86-1 de la CEI<br>For acceptance tests, see Sub-clause 8 5 of IEC Publication 86-1            |                                                 |                                           |                                                                                    |              |                                                                  |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R43<br><br>For the physical details of this battery see<br>physical specification sheet R43 |                                                 |                                           |                                                                                    |              |                                                                  |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1                                                               |                                                 |                                           |                                                                                    |              |                                                                  |
| 86-2-IEC-MR43                                                                                                                                                                 |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                                                                  |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|
| I E C<br><br>C E I                                                                                                                                                            | Pile SR43                                       | Battery SR43                              | SPECIFICATION<br>DU COUPLE                                                         |
|                                                                                                                                                                               | Tension nominale 1,35 V, Nominal voltage 1 35 V |                                           | SYSTEM<br>SPECIFICATION                                                            |
|                                                                                                                                                                               |                                                 |                                           | 86-2-IEC-SR43                                                                      |
| Décharges                                                                                                                                                                     |                                                 |                                           | Discharges                                                                         |
| Conditions                                                                                                                                                                    |                                                 |                                           | Applications                                                                       |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                          | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |
| 470                                                                                                                                                                           | 24 h                                            | 1,2                                       |                                                                                    |
| 10                                                                                                                                                                            | 24 h                                            | 1,2                                       |                                                                                    |
| 22                                                                                                                                                                            | 24 h                                            | 1,2                                       | Essai de capacité<br>Capacity test                                                 |
| NOTE Pour les essais d'acceptation, voir le paragraphe 8 5<br>de la Publication 86-1 de la CEI<br>For acceptance tests, see Sub-clause 8 5 of IEC Publication 86-1            |                                                 |                                           |                                                                                    |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R43<br><br>For the physical details of this battery see<br>physical specification sheet R43 |                                                 |                                           |                                                                                    |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1                                                               |                                                 |                                           |                                                                                    |
| 86-2-IEC-SR43                                                                                                                                                                 |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--|------------------------------------|--|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile LR44                                     |                                           | Battery LR44                                                                       |  | SPECIFICATION<br>DU COUPLE         |  |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                           |                                                                                    |  | SYSTEM<br>SPECIFICATION            |  |
|                                                                                                                                                                                                                                                                                                                |                                               |                                           |                                                                                    |  | 86-2-IEC-LR44                      |  |
| Décharges                                                                                                                                                                                                                                                                                                      |                                               |                                           |                                                                                    |  | Discharges                         |  |
| Conditions                                                                                                                                                                                                                                                                                                     |                                               |                                           |                                                                                    |  | Applications                       |  |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period        | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |  |                                    |  |
| 6 8                                                                                                                                                                                                                                                                                                            | 24 h                                          | 1,2                                       |                                                                                    |  | Essai de capacité<br>Capacity test |  |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R44</p> <p>For the physical details of this battery see<br/>physical specification sheet R44</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                               |                                           |                                                                                    |  |                                    |  |
| 86-2-IEC-LR44                                                                                                                                                                                                                                                                                                  |                                               |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |  |                                    |  |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Pile MR44                                       |                                           | Battery MR44                                                                       |                                                                  | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Tension nominale 1,35 V, Nominal voltage 1 35 V |                                           |                                                                                    |                                                                  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |                                           |                                                                                    |                                                                  | 86-2-IEC-MR44              |
| Décharges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 |                                           |                                                                                    |                                                                  | Discharges                 |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                                           |                                                                                    | Applications                                                     |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |                                                                  |                            |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 24 h                                            | 1,2                                       |                                                                                    |                                                                  |                            |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 24 h                                            | 1,2                                       |                                                                                    |                                                                  |                            |
| 6,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 24 h                                            | 1,2                                       |                                                                                    |                                                                  |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |                                           |                                                                                    | Montres électroniques<br>(Q S M )<br>Electronic watches (Q S M ) |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |                                           |                                                                                    | Essai de capacité<br>Capacity test                               |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |                                           |                                                                                    | Essai de capacité<br>Capacity test                               |                            |
| <p>NOTE Pour les essais d'acceptation, voir le paragraphe 8 5<br/>de la Publication 86-1 de la CEI<br/>For acceptance tests, see Sub-clause 8 5 of IEC Publication 86-1</p> <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R44</p> <p>For the physical details of this battery see<br/>physical specification sheet R44</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                                 |                                           |                                                                                    |                                                                  |                            |
| 86-2-IEC-MR44                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                                  |                            |

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| I E C<br><br>C E I                                                                                                                                                  | Pile SR44                                       |                                               | Battery SR44                                                                       |                                                                  | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                     | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                               |                                                                                    |                                                                  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                     |                                                 |                                               |                                                                                    |                                                                  | 86-2-IEC-SR44              |
| Décharges                                                                                                                                                           |                                                 |                                               |                                                                                    |                                                                  | Discharges                 |
| Conditions                                                                                                                                                          |                                                 |                                               |                                                                                    | Applications                                                     |                            |
| Résistance<br>Resistance                                                                                                                                            | Cycle<br>journalier<br><br>Daily<br>period      | Tension<br>d'arrêt<br><br>End<br>point<br>(V) |                                                                                    |                                                                  |                            |
| (kΩ)                                                                                                                                                                |                                                 |                                               |                                                                                    |                                                                  |                            |
| 470                                                                                                                                                                 | 24 h                                            | 1,2                                           |                                                                                    | Montres électroniques<br>(Q S M )<br>Electronic watches (Q S M ) |                            |
| 15 k                                                                                                                                                                | 24 h                                            | 1,2                                           |                                                                                    | Essai de capacité<br>Capacity test                               |                            |
| 6,8 k                                                                                                                                                               | 24 h                                            | 1,2                                           |                                                                                    | Essai de capacité<br>Capacity test                               |                            |
| 5,6                                                                                                                                                                 | 1)                                              | 0,9                                           |                                                                                    | 2)                                                               |                            |
| 1) 24 h par jour, plus 39 Ω pendant 1 s toutes les 6 s, pendant 5 min par jour<br>24 h per day, plus 39 Ω for 1 s every 6 s, for 5 min per day                      |                                                 |                                               |                                                                                    |                                                                  |                            |
| 2) Essai d'application accéléré pour appareils photographiques automatiques<br>Accelerated application test for automatic cameras                                   |                                                 |                                               |                                                                                    |                                                                  |                            |
| NOTE Pour les essais d'acceptation, voir le paragraphe 8 5 de la Publication 86-1 de la CEI<br>For acceptance tests, see Sub-clause 8 5 of IEC Publication 86-1     |                                                 |                                               |                                                                                    |                                                                  |                            |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R44<br>For the physical details of this battery see physical specification sheet R44 |                                                 |                                               |                                                                                    |                                                                  |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1                                                     |                                                 |                                               |                                                                                    |                                                                  |                            |
| 86-2-IEC-SR44                                                                                                                                                       |                                                 |                                               | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                                  |                            |

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| I E C<br><br>C E I                                                                                              | Pile MR48                                       |                                           | Battery MR48                                                                       |                                                                  | SPECIFICATION<br>DU COUPLE |
|                                                                                                                 | Tension nominale 1,35 V, Nominal voltage 1 35 V |                                           |                                                                                    |                                                                  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                 |                                                 |                                           |                                                                                    |                                                                  | 86-2-IEC-MR48              |
| Décharges                                                                                                       |                                                 |                                           |                                                                                    |                                                                  | Discharges                 |
| Conditions                                                                                                      |                                                 |                                           |                                                                                    | Applications                                                     |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                            | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |                                                                  |                            |
| 470                                                                                                             | 24 h                                            | 1,2                                       |                                                                                    |                                                                  |                            |
| 33                                                                                                              | 24 h                                            | 1,2                                       |                                                                                    |                                                                  |                            |
| 15                                                                                                              | 24 h                                            | 1,2                                       |                                                                                    |                                                                  |                            |
|                                                                                                                 |                                                 |                                           |                                                                                    | Montres électroniques<br>(Q S M )<br>Electronic watches (Q S M ) |                            |
|                                                                                                                 |                                                 |                                           |                                                                                    | Essai de capacité<br>Capacity test                               |                            |
|                                                                                                                 |                                                 |                                           |                                                                                    | Essai de capacité<br>Capacity test                               |                            |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R48                           |                                                 |                                           |                                                                                    |                                                                  |                            |
| For the physical details of this battery see<br>physical specification sheet R48                                |                                                 |                                           |                                                                                    |                                                                  |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1 |                                                 |                                           |                                                                                    |                                                                  |                            |
| 86-2-IEC-MR48                                                                                                   |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                                  |                            |

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| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile SR48                                       |                                               |                                    |                                                                                    | Battery SR48                                                        |  | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                               |                                    |                                                                                    |                                                                     |  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                |                                                 |                                               |                                    |                                                                                    |                                                                     |  | 86-2-IEC-SR48              |
| Décharges                                                                                                                                                                                                                                                                                                      |                                                 |                                               |                                    |                                                                                    |                                                                     |  | Discharges                 |
| Conditions                                                                                                                                                                                                                                                                                                     |                                                 |                                               | Durée minimale<br>Minimum duration |                                                                                    | Applications                                                        |  |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br><br>Daily<br>period      | Tension<br>d'arrêt<br><br>End<br>point<br>(V) | Initiale<br><br>Initial            | Après 12<br>mois de<br>magasinage<br>After 12<br>months<br>storage                 |                                                                     |  |                            |
| 1,5                                                                                                                                                                                                                                                                                                            | 12 h                                            | 0,9                                           | 40 h                               | 32 h                                                                               | Appareils de correction<br>auditive<br>Hearing aids                 |  |                            |
| 470                                                                                                                                                                                                                                                                                                            | 24 h                                            | 1,2                                           |                                    |                                                                                    | Montres électroniques<br>(Q S M )<br>Electronic watches<br>(Q S M ) |  |                            |
| 33                                                                                                                                                                                                                                                                                                             | 24 h                                            | 1,2                                           |                                    |                                                                                    | Essai de capacité<br>Capacity test                                  |  |                            |
| 15                                                                                                                                                                                                                                                                                                             | 24 h                                            | 1,2                                           |                                    |                                                                                    | Essai de capacité<br>Capacity test                                  |  |                            |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R48</p> <p>For the physical details of this battery see<br/>physical specification sheet R48</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                                 |                                               |                                    |                                                                                    |                                                                     |  |                            |
| 86-2-IEC-SR48                                                                                                                                                                                                                                                                                                  |                                                 |                                               |                                    | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                                                     |  |                            |

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| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                           | Pile LR54                                     |                                           | Battery LR54                                                                       |              | SPECIFICATION<br>DU COUPLE         |
|                                                                                                                                                                                                                                                                                                                              | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                           |                                                                                    |              | SYSTEM<br>SPECIFICATION            |
|                                                                                                                                                                                                                                                                                                                              |                                               |                                           |                                                                                    |              | 86-2-IEC-LR54                      |
| Décharges                                                                                                                                                                                                                                                                                                                    |                                               |                                           |                                                                                    |              | Discharges                         |
| Conditions                                                                                                                                                                                                                                                                                                                   |                                               |                                           |                                                                                    | Applications |                                    |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                                         | Cycle<br>journalier<br>Daily<br>period        | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                                    |
| 15                                                                                                                                                                                                                                                                                                                           | 24 h                                          | 1,2                                       |                                                                                    |              |                                    |
|                                                                                                                                                                                                                                                                                                                              |                                               |                                           |                                                                                    |              | Essai de capacité<br>Capacity test |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R54</p> <p><i>For the physical details of this battery see<br/>physical specification sheet R54</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information, see IEC Publication 86-1</i></p> |                                               |                                           |                                                                                    |              |                                    |
| 86-2-IEC-LR54                                                                                                                                                                                                                                                                                                                |                                               |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                                    |

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| I E C<br><br>C E I                   | Pile MR54                                       |                                           | Battery MR54 |              | SPECIFICATION<br>DU COUPLE         |
|                                      | Tension nominale 1,35 V, Nominal voltage 1 35 V |                                           |              |              | SYSTEM<br>SPECIFICATION            |
|                                      |                                                 |                                           |              |              | 86-2-IEC-MR54                      |
| Décharges                            |                                                 |                                           |              |              | Discharges                         |
| Conditions                           |                                                 |                                           |              | Applications |                                    |
| Résistance<br>Resistance<br><br>(kΩ) | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |              |              |                                    |
| 39                                   | 24 h                                            | 1,2                                       |              |              |                                    |
| 15                                   | 24 h                                            | 1,2                                       |              |              |                                    |
|                                      |                                                 |                                           |              |              | Essai de capacité<br>Capacity test |
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--|----------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile SR54                                       |                                           | Battery SR54                                                                       |  | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                           |                                                                                    |  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                |                                                 |                                           |                                                                                    |  | 86-2-IEC-SR54              |
| Décharges                                                                                                                                                                                                                                                                                                      |                                                 |                                           | Discharges                                                                         |  |                            |
| Conditions                                                                                                                                                                                                                                                                                                     |                                                 |                                           | Applications                                                                       |  |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |  |                            |
| 39                                                                                                                                                                                                                                                                                                             | 24 h                                            | 1,2                                       | Essai de capacité<br>Capacity test                                                 |  |                            |
| 15                                                                                                                                                                                                                                                                                                             | 24 h                                            | 1,2                                       | Essai de capacité<br>Capacity test                                                 |  |                            |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R54</p> <p>For the physical details of this battery see<br/>physical specification sheet R54</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                                 |                                           |                                                                                    |  |                            |
| 86-2-IEC-SR54                                                                                                                                                                                                                                                                                                  |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |  |                            |

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| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                           | Pile LR56                                     |                                           |  | Battery LR56                                                                       |                                    |  | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                              | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                           |  |                                                                                    |                                    |  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                              |                                               |                                           |  |                                                                                    |                                    |  | 86-2-IEC-LR56              |
| Décharges                                                                                                                                                                                                                                                                                                                    |                                               |                                           |  |                                                                                    |                                    |  | Discharges                 |
| Conditions                                                                                                                                                                                                                                                                                                                   |                                               |                                           |  |                                                                                    | Applications                       |  |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                                         | Cycle<br>journalier<br>Daily<br>period        | Tension<br>d'arrêt<br>End<br>point<br>(V) |  |                                                                                    |                                    |  |                            |
| 15                                                                                                                                                                                                                                                                                                                           | 24 h                                          | 1,2                                       |  |                                                                                    | Essai de capacité<br>Capacity test |  |                            |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R56</p> <p><i>For the physical details of this battery see<br/>physical specification sheet R56</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information, see IEC Publication 86-1</i></p> |                                               |                                           |  |                                                                                    |                                    |  |                            |
| 86-2-IEC-LR56                                                                                                                                                                                                                                                                                                                |                                               |                                           |  | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                    |  |                            |

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|--------------------|-----------|--------------|---------------------------|
| I E C<br><br>C E I | Pile 4R61 | Battery 4R61 | SPECIFICATION<br>PHYSIQUE |
|                    |           |              | PHYSICAL<br>SPECIFICATION |
|                    |           |              | 86-2-IEC-4R61             |

Dimensions (en millimètres)

Dimensions (in millimetres)

Echelle 1 1

Scale 1 1

Les piles correspondant à cette  
feuille de spécification physique sont  
Batteries complying with this specification are

4LR61

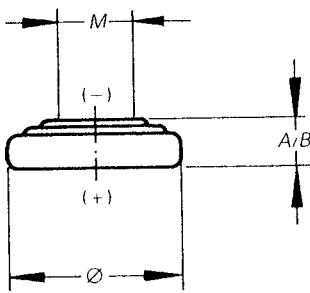
Pour information générale, voir Publication 86-1 de la CEI  
For general information, see IEC Publication 86-1

86-2-IEC-4R61

Publication 86-2 de la CEI- Septembre 1989  
IEC Publication 86-2- September 1989

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|--------------------|-----------------------------|---------------------------|
| I E C<br><br>C E I | Pile R62<br><br>Battery R62 | SPECIFICATION<br>PHYSIQUE |
|                    |                             | PHYSICAL<br>SPECIFICATION |
|                    |                             | 86-2-IEC-R62              |

Dimensions (en millimètres)



— Dimensions (in millimetres)

| Dimension | Max  | Min  |
|-----------|------|------|
| I         | 1 65 |      |
| B         |      | 1 45 |
| M         |      | 2 5  |
| Λ         |      | 3 8  |
| Ø         | 5 80 | 5 55 |

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

La partie plane du contact négatif doit dépasser  
*The flat of the negative contact must project*

Le contact positif doit en principe se faire sur le côté de la pile, mais pourra aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0 1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1*

Echelle 4:1  
*Scale 4 1*

Marquage, le paragraphe 6 2 est applicable  
*Marking, Sub-clause 6 2 is applicable*

Les piles correspondant à cette  
feuille de spécification physique sont  
*Batteries complying with this specification are*

} SR62, TR62

Pour information générale, voir Publication 86-1 de la CEI  
*For general information, see IEC Publication 86-1*

86-2-IEC-R62

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|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|
| I E C<br><br>C E I                                                                                              | Pile SR62                                       | Battery SR62                                                                       | SPECIFICATION<br>DU COUPLE |
|                                                                                                                 | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                 |                                                 |                                                                                    | 86-2-IEC-SR62              |
| Décharges                                                                                                       |                                                 | Discharges                                                                         |                            |
| A L'étude<br>Under consideration                                                                                |                                                 |                                                                                    |                            |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R62                           |                                                 |                                                                                    |                            |
| For the physical details of this battery see<br>physical specification sheet R62                                |                                                 |                                                                                    |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1 |                                                 |                                                                                    |                            |
| 86-2-IEC-SR62                                                                                                   |                                                 | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                            |

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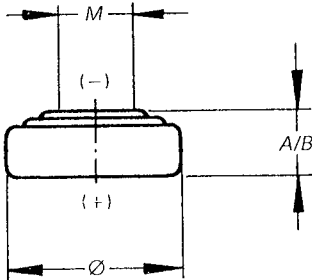
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|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|
| I E C<br><br>C E I                                                                                              | Pile TR62                                       | Battery TR62                                                                       | SPECIFICATION<br>DU COUPLE |
|                                                                                                                 | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                 |                                                 |                                                                                    | 86-2-IEC-TR62              |
| Décharges                                                                                                       |                                                 | Discharges                                                                         |                            |
| A L'étude<br>Under consideration                                                                                |                                                 |                                                                                    |                            |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R62                           |                                                 |                                                                                    |                            |
| For the physical details of this battery see<br>physical specification sheet R62                                |                                                 |                                                                                    |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1 |                                                 |                                                                                    |                            |
| 86-2-IEC-TR62                                                                                                   |                                                 | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                            |

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| I E C<br><br>C E I | Pile R63<br><br>Battery R63 | SPECIFICATION<br>PHYSIQUE |
|                    |                             | PHYSICAL<br>SPECIFICATION |
|                    |                             | 86-2-IEC-R63              |

Dimensions (en millimètres)



Dimensions (in millimetres)

| Dimension | Max  | Min  |
|-----------|------|------|
| <i>l</i>  | 2 15 |      |
| <i>B</i>  |      | 1 90 |
| <i>M</i>  |      | 2 5  |
| <i>N</i>  |      | 3 8  |
| Ø         | 5 80 | 5 55 |

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

La partie plane du contact négatif doit dépasser  
*The flat of the negative contact must project*

Le contact positif doit en principe se faire sur le côté de la pile mais pourra aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0 1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1*

Echelle 4:1  
*Scale 4 1*

Marquage, le paragraphe 6 2 est applicable  
*Marking, Sub-clause 6 2 is applicable*

Les piles correspondant à cette  
feuille de spécification physique sont  
*Batteries complying with this specification are*

}

SR63, TR63

Pour information générale, voir Publication 86-1 de la CEI  
*For general information, see IEC Publication 86-1*

86-2-IEC-R63

Publication 86-2 de la CEI- Septembre 1989  
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                         | Pile SR63                                       | Battery SR63                                                                       | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                            | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                            |                                                 |                                                                                    | 86-2-IEC-SR63              |
| Décharges                                                                                                                                                                                                                                                                                                                  |                                                 | Discharges                                                                         |                            |
| <div>A L'étude<br/>Under consideration</div>                                                                                                                                                                                                                                                                               |                                                 |                                                                                    |                            |
| <div>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R63</div> <div>For the physical details of this battery see<br/>physical specification sheet R63</div> <div>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</div> |                                                 |                                                                                    |                            |
| 86-2-IEC-SR63                                                                                                                                                                                                                                                                                                              |                                                 | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                            |

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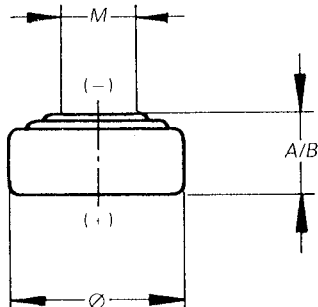
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| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile TR63                                       | Battery TR63                                                                       | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                |                                                 |                                                                                    | 86-2-IEC-TR63              |
| Décharges                                                                                                                                                                                                                                                                                                      |                                                 |                                                                                    | Discharges                 |
| <p>A L'étude<br/>Under consideration</p>                                                                                                                                                                                                                                                                       |                                                 |                                                                                    |                            |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R63</p> <p>For the physical details of this battery see<br/>physical specification sheet R63</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                                 |                                                                                    |                            |
| 86-2-IEC-TR63                                                                                                                                                                                                                                                                                                  |                                                 | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                            |

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| I E C<br><br>C E I | Pile R64<br><br>Battery R64 | SPECIFICATION<br>PHYSIQUE |
|                    |                             | PHYSICAL<br>SPECIFICATION |
|                    |                             | 86-2-IEC-R64              |

Dimensions (en millimètres)



Dimensions (in millimetres)

| Dimension | Max  | Min  |
|-----------|------|------|
| I         | 2 70 |      |
| B         |      | 2 40 |
| M         |      | 2 5  |
| A         |      | 3 8  |
| Ø         | 5 80 | 5 55 |

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

La partie plane du contact négatif doit dépasser  
*The flat of the negative contact must project*

Le contact positif doit en principe se faire sur le côté de la pile, mais pourra aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0 1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1*

Echelle 4 1  
*Scale 4 1*

Marquage, le paragraphe 6 2 est applicable  
*Marking, Sub-clause 6 2 is applicable*

Les piles correspondant à cette  
feuille de spécification physique sont  
*Batteries complying with this specification are*

}

SR64, TR64

Pour information générale, voir Publication 86-1 de la CEI  
*For general information, see IEC Publication 86-1*

86-2-IEC-R64

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| I E C<br><br>C E I                                                                                              | Pile SR64                                       | Battery SR64                                                                       | SPECIFICATION<br>DU COUPLE |
|                                                                                                                 | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                 |                                                 |                                                                                    | 86-2-IEC-SR64              |
| Décharges                                                                                                       |                                                 | Discharges                                                                         |                            |
| A L'étude<br>Under consideration                                                                                |                                                 |                                                                                    |                            |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R64                           |                                                 |                                                                                    |                            |
| For the physical details of this battery see<br>physical specification sheet R64                                |                                                 |                                                                                    |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1 |                                                 |                                                                                    |                            |
| 86-2-IEC-SR64                                                                                                   |                                                 | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                            |

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| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                         | Pile TR64                                       | Battery TR64                                                                       | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                            | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                            |                                                 |                                                                                    | 86-2-IEC-TR64              |
| Décharges                                                                                                                                                                                                                                                                                                                  |                                                 | Discharges                                                                         |                            |
| <div>A L'étude<br/>Under consideration</div>                                                                                                                                                                                                                                                                               |                                                 |                                                                                    |                            |
| <div>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R64</div> <div>For the physical details of this battery see<br/>physical specification sheet R64</div> <div>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</div> |                                                 |                                                                                    |                            |
| 86-2-IEC-TR64                                                                                                                                                                                                                                                                                                              |                                                 | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                            |

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| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                           | Pile LR65                              |                                           | Battery LR65                                                                       |                                    | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                              | Tension nominale 1,5 V,                |                                           | Nominal voltage 1 5 V                                                              |                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                              |                                        |                                           |                                                                                    |                                    | 86-2-IEC-LR65              |
| Décharges                                                                                                                                                                                                                                                                                                                    |                                        |                                           |                                                                                    |                                    | Discharges                 |
| Conditions                                                                                                                                                                                                                                                                                                                   |                                        |                                           |                                                                                    | Applications                       |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                                         | Cycle<br>journalier<br>Daily<br>period | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |                                    |                            |
| 100                                                                                                                                                                                                                                                                                                                          | 24 h                                   | 1,2                                       |                                                                                    | Essai de capacité<br>Capacity test |                            |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R65</p> <p><i>For the physical details of this battery see<br/>physical specification sheet R65</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information, see IEC Publication 86-1</i></p> |                                        |                                           |                                                                                    |                                    |                            |
| 86-2-IEC-LR65                                                                                                                                                                                                                                                                                                                |                                        |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                    |                            |

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| I E C<br><br>C E I                                                                                              | Pile SR65                                       |                                           | Battery SR65                                                                       |              | SPECIFICATION<br>DU COUPLE |
|                                                                                                                 | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                           |                                                                                    |              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                 |                                                 |                                           |                                                                                    |              | 86-2-IEC-SR65              |
| Décharges                                                                                                       |                                                 |                                           |                                                                                    |              | Discharges                 |
| Conditions                                                                                                      |                                                 |                                           |                                                                                    | Applications |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                            | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                            |
| 100                                                                                                             | 24 h                                            | 1,2                                       |                                                                                    |              |                            |
| Essai de capacité<br>Capacity test                                                                              |                                                 |                                           |                                                                                    |              |                            |
| Pour plus de détails sur cette pile, voir la<br>feuille de spécification physique R65                           |                                                 |                                           |                                                                                    |              |                            |
| For the physical details of this battery see<br>physical specification sheet R65                                |                                                 |                                           |                                                                                    |              |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information, see IEC Publication 86-1 |                                                 |                                           |                                                                                    |              |                            |
| 86-2-IEC-SR65                                                                                                   |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                            |

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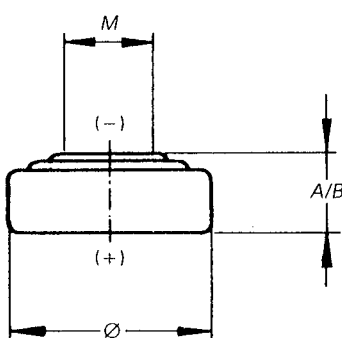
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--------------|------------------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile TR65                                       |                                           | Battery TR65                                                                       |              | SPECIFICATION<br>DU COUPLE         |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                           |                                                                                    |              | SYSTEM<br>SPECIFICATION            |
|                                                                                                                                                                                                                                                                                                                |                                                 |                                           |                                                                                    |              | 86-2-IEC-TR65                      |
| Décharges                                                                                                                                                                                                                                                                                                      |                                                 |                                           |                                                                                    |              | Discharges                         |
| Conditions                                                                                                                                                                                                                                                                                                     |                                                 |                                           |                                                                                    | Applications |                                    |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                                    |
| 100                                                                                                                                                                                                                                                                                                            | 24 h                                            | 1,2                                       |                                                                                    |              |                                    |
|                                                                                                                                                                                                                                                                                                                |                                                 |                                           |                                                                                    |              | Essai de capacité<br>Capacity test |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R65</p> <p>For the physical details of this battery see<br/>physical specification sheet R65</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                                 |                                           |                                                                                    |              |                                    |
| 86-2-IEC-TR65                                                                                                                                                                                                                                                                                                  |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2; September 1989 |              |                                    |

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|--------------------|-----------------------------|---------------------------|
| I E C<br><br>C E I | Pile R66<br><br>Battery R66 | SPECIFICATION<br>PHYSIQUE |
|                    |                             | PHYSICAL<br>SPECIFICATION |
|                    |                             | 86-2-IEC-R66              |

Dimensions (en millimètres)



Dimensions (in millimetres)

| Dimension | Max  | Min  |
|-----------|------|------|
| <i>l</i>  | 2 60 |      |
| <i>B</i>  |      | 2 40 |
| <i>M</i>  |      | 3 0  |
| Ø         | 6 8  | 6 60 |

La partie plane du contact négatif doit dépasser  
*The flat of the negative contact must project*

Le contact positif doit en principe se faire sur le côté de la pile mais pourra aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0 1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1*

Marquage le paragraphe 6 2 est applicable  
*Marking Sub clause 6 2 is applicable*

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

Echelle 4 1  
*Scale 4 1*

Marquage, le paragraphe 6 2 est applicable  
*Marking, Sub-clause 6 2 is applicable*

Les piles correspondant à cette  
feuille de spécification physique sont  
*Batteries complying with this specification are*

LR66, SR66, TR66

Pour information générale, voir Publication 86-1 de la CEI  
*For general information, see IEC Publication 86-1*

86-2-IEC-R66

Publication 86-2 de la CEI- Septembre 1989  
*IEC Publication 86-2- September 1989*

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|                                                                                                                                                                                                                                                                                                                              |                                               |                                           |                                                                                    |              |                                    |  |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--------------|------------------------------------|--|----------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                           | Pile LR66                                     |                                           |                                                                                    | Battery LR66 |                                    |  | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                              | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                           |                                                                                    |              |                                    |  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                              |                                               |                                           |                                                                                    |              |                                    |  | 86-2-IEC-LR66              |
| Décharges                                                                                                                                                                                                                                                                                                                    |                                               |                                           |                                                                                    |              |                                    |  | Discharges                 |
| Conditions                                                                                                                                                                                                                                                                                                                   |                                               |                                           |                                                                                    |              | Applications                       |  |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                                         | Cycle<br>journalier<br>Daily<br>period        | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                                    |  |                            |
| 47                                                                                                                                                                                                                                                                                                                           | 24 h                                          | 1,2                                       |                                                                                    |              | Essai de capacité<br>Capacity test |  |                            |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R66</p> <p><i>For the physical details of this battery see<br/>physical specification sheet R66</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information, see IEC Publication 86-1</i></p> |                                               |                                           |                                                                                    |              |                                    |  |                            |
| 86-2-IEC-LR66                                                                                                                                                                                                                                                                                                                |                                               |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                                    |  |                            |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--------------|----------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile SR66                                       |                                           | Battery SR66                                                                       |              | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                           |                                                                                    |              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                |                                                 |                                           |                                                                                    |              | 86-2-IEC-SR66              |
| Décharges                                                                                                                                                                                                                                                                                                      |                                                 |                                           |                                                                                    |              | Discharges                 |
| Conditions                                                                                                                                                                                                                                                                                                     |                                                 |                                           |                                                                                    | Applications |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                            |
| 47                                                                                                                                                                                                                                                                                                             | 24 h                                            | 1,2                                       |                                                                                    |              |                            |
|                                                                                                                                                                                                                                                                                                                |                                                 |                                           | Essai de capacité<br>Capacity test                                                 |              |                            |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R66</p> <p>For the physical details of this battery see<br/>physical specification sheet R66</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                                 |                                           |                                                                                    |              |                            |
| 86-2-IEC-SR66                                                                                                                                                                                                                                                                                                  |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                            |

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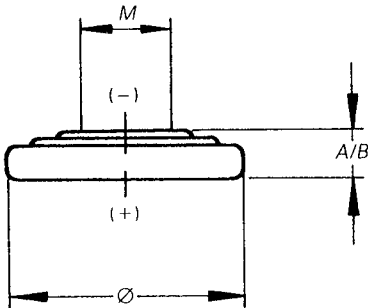
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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|------------------------------------|----------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                           | Pile TR66                                       |                                           | Battery TR66                                                                       |                                    | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                              | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                           |                                                                                    |                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                              |                                                 |                                           |                                                                                    |                                    | 86-2-IEC-TR66              |
| Décharges                                                                                                                                                                                                                                                                                                                    |                                                 |                                           |                                                                                    |                                    | Discharges                 |
| Conditions                                                                                                                                                                                                                                                                                                                   |                                                 |                                           |                                                                                    | Applications                       |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                                         | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |                                    |                            |
| 47                                                                                                                                                                                                                                                                                                                           | 24 h                                            | 1,2                                       |                                                                                    | Essai de capacité<br>Capacity test |                            |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R66</p> <p><i>For the physical details of this battery see<br/>physical specification sheet R66</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information, see IEC Publication 86-1</i></p> |                                                 |                                           |                                                                                    |                                    |                            |
| 86-2-IEC-TR66                                                                                                                                                                                                                                                                                                                |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                    |                            |

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|                    |                             |                           |
|--------------------|-----------------------------|---------------------------|
| I E C<br><br>C E I | Pile R67<br><br>Battery R67 | SPECIFICATION<br>PHYSIQUE |
|                    |                             | PHYSICAL<br>SPECIFICATION |
|                    |                             | 86-2-IEC-R67              |

Dimensions (en millimètres)



Dimensions (in millimetres)

| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 1 65 |      |
| B         |      | 1 45 |
| M         |      | 3 0  |
| Ø         | 7 9  | 7 65 |

La partie plane du contact négatif doit dépasser  
*The flat of the negative contact must project*

Le contact positif doit en principe se faire sur le côté de la pile mais pourra aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0 1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1*

Marquage le paragraphe 6 2 est applicable  
*Marking Sub clause 6 2 is applicable*

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

Echelle 4:1  
*Scale 4 1*

Marquage, le paragraphe 6 2 est applicable  
*Marking, Sub-clause 6 2 is applicable*

Les piles correspondant à cette  
feuille de spécification physique sont  
*Batteries complying with this specification are*

LR67, SR67, TR67

Pour information générale, voir Publication 86-1 de la CEI  
*For general information, see IEC Publication 86-1*

86-2-IEC-R67

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|                                                                                                                                                                                                                                                                                                                |                                               |                                           |                                                                                    |              |                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--------------|------------------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile LR67                                     |                                           | Battery LR67                                                                       |              | SPECIFICATION<br>DU COUPLE         |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                           |                                                                                    |              | SYSTEM<br>SPECIFICATION            |
|                                                                                                                                                                                                                                                                                                                |                                               |                                           |                                                                                    |              | 86-2-IEC-LR67                      |
| Décharges                                                                                                                                                                                                                                                                                                      |                                               |                                           |                                                                                    |              | Discharges                         |
| Conditions                                                                                                                                                                                                                                                                                                     |                                               |                                           |                                                                                    | Applications |                                    |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period        | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                                    |
| 68                                                                                                                                                                                                                                                                                                             | 24 h                                          | 1,2                                       |                                                                                    |              |                                    |
|                                                                                                                                                                                                                                                                                                                |                                               |                                           |                                                                                    |              | Essai de capacité<br>Capacity test |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R67</p> <p>For the physical details of this battery see<br/>physical specification sheet R67</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                               |                                           |                                                                                    |              |                                    |
| 86-2-IEC-LR67                                                                                                                                                                                                                                                                                                  |                                               |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                                    |

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|                                                                                                                                                                                                                                                                                                                |                                                 |                                           |                                                                                    |                                    |                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|------------------------------------|----------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile SR67                                       |                                           | Battery SR67                                                                       |                                    | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                           |                                                                                    |                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                |                                                 |                                           |                                                                                    |                                    | 86-2-IEC-SR67              |
| Décharges                                                                                                                                                                                                                                                                                                      |                                                 |                                           |                                                                                    |                                    | Discharges                 |
| Conditions                                                                                                                                                                                                                                                                                                     |                                                 |                                           |                                                                                    | Applications                       |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |                                    |                            |
| 68                                                                                                                                                                                                                                                                                                             | 24 h                                            | 1,2                                       |                                                                                    | Essai de capacité<br>Capacity test |                            |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R67</p> <p>For the physical details of this battery see<br/>physical specification sheet R67</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                                 |                                           |                                                                                    |                                    |                            |
| 86-2-IEC-SR67                                                                                                                                                                                                                                                                                                  |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                    |                            |

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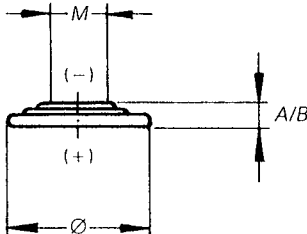
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--------------|------------------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile TR67                                       |                                           | Battery TR67                                                                       |              | SPECIFICATION<br>DU COUPLE         |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                           |                                                                                    |              | SYSTEM<br>SPECIFICATION            |
|                                                                                                                                                                                                                                                                                                                |                                                 |                                           |                                                                                    |              | 86-2-IEC-TR67                      |
| Décharges                                                                                                                                                                                                                                                                                                      |                                                 |                                           |                                                                                    |              | Discharges                         |
| Conditions                                                                                                                                                                                                                                                                                                     |                                                 |                                           |                                                                                    | Applications |                                    |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                                    |
| 68                                                                                                                                                                                                                                                                                                             | 24 h                                            | 1,2                                       |                                                                                    |              |                                    |
|                                                                                                                                                                                                                                                                                                                |                                                 |                                           |                                                                                    |              | Essai de capacité<br>Capacity test |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R67</p> <p>For the physical details of this battery see<br/>physical specification sheet R67</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                                 |                                           |                                                                                    |              |                                    |
| 86-2-IEC-TR67                                                                                                                                                                                                                                                                                                  |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                                    |

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|                    |                             |                           |
|--------------------|-----------------------------|---------------------------|
| I E C<br><br>C E I | Pile R68<br><br>Battery R68 | SPECIFICATION<br>PHYSIQUE |
|                    |                             | PHYSICAL<br>SPECIFICATION |
|                    |                             | 86-2-IEC-R68              |

Dimensions (en millimètres)



Dimensions (in millimetres)

| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 1 65 |      |
| B         |      | 1 45 |
| M         |      | 3 8  |
| Ø         | 9 5  | 9 25 |

La partie plane du contact négatif doit dépasser  
*The flat of the negative contact must project*

Le contact positif doit en principe se faire sur le côté de la pile mais pourra aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0 1  
*The difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1*

Marquage le paragraphe 6 2 est applicable  
*Marking Sub clause 6 2 is applicable*

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

Echelle 2:1  
*Scale 2 1*

Marquage, le paragraphe 6 2 est applicable  
*Marking, Sub-clause 6 2 is applicable*

Les piles correspondant à cette  
feuille de spécification physique sont  
*Batteries complying with this specification are*

LR68, SR68, TR68

Pour information générale, voir Publication 86-1 de la CEI  
*For general information, see IEC Publication 86-1*

| 86-2-IEC-R68  Publication 86-2 de la CEI- Septembre 1989 IEC Publication 86-2- September 1989 | | |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------|--|------------------------------------------------------------------------------------|--|--|------------------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile LR68                                     |                                           |  | Battery LR68                                                                       |  |  | SPECIFICATION<br>DU COUPLE         |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                           |  |                                                                                    |  |  | SYSTEM<br>SPECIFICATION            |
|                                                                                                                                                                                                                                                                                                                |                                               |                                           |  |                                                                                    |  |  | 86-2-IEC-LR68                      |
| Décharges                                                                                                                                                                                                                                                                                                      |                                               |                                           |  |                                                                                    |  |  | Discharges                         |
| Conditions                                                                                                                                                                                                                                                                                                     |                                               |                                           |  | Applications                                                                       |  |  |                                    |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period        | Tension<br>d'arrêt<br>End<br>point<br>(V) |  |                                                                                    |  |  |                                    |
| 47                                                                                                                                                                                                                                                                                                             | 24 h                                          | 1,2                                       |  |                                                                                    |  |  |                                    |
|                                                                                                                                                                                                                                                                                                                |                                               |                                           |  |                                                                                    |  |  | Essai de capacité<br>Capacity test |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R68</p> <p>For the physical details of this battery see<br/>physical specification sheet R68</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                               |                                           |  |                                                                                    |  |  |                                    |
| 86-2-IEC-LR68                                                                                                                                                                                                                                                                                                  |                                               |                                           |  | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |  |  |                                    |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|------------------------------------|----------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile SR68                                       |                                           | Battery SR68                                                                       |                                    | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                           |                                                                                    |                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                |                                                 |                                           |                                                                                    |                                    | 86-2-IEC-SR68              |
| Décharges                                                                                                                                                                                                                                                                                                      |                                                 |                                           |                                                                                    |                                    | Discharges                 |
| Conditions                                                                                                                                                                                                                                                                                                     |                                                 |                                           |                                                                                    | Applications                       |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |                                    |                            |
| 47                                                                                                                                                                                                                                                                                                             | 24 h                                            | 1,2                                       |                                                                                    | Essai de capacité<br>Capacity test |                            |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R68</p> <p>For the physical details of this battery see<br/>physical specification sheet R68</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                                 |                                           |                                                                                    |                                    |                            |
| 86-2-IEC-SR68                                                                                                                                                                                                                                                                                                  |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                    |                            |

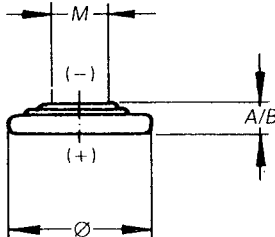
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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------|----------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                           | Pile TR68<br><br>Battery TR68                   |                                                                                    |                                    | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                              | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                                                                    |                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                              |                                                 |                                                                                    |                                    | 86-2-IEC-TR68              |
| Décharges                                                                                                                                                                                                                                                                                                                    |                                                 |                                                                                    |                                    | Discharges                 |
| Conditions                                                                                                                                                                                                                                                                                                                   |                                                 |                                                                                    |                                    | Applications               |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                                         | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V)                                          |                                    |                            |
| 47                                                                                                                                                                                                                                                                                                                           | 24 h                                            | 1,2                                                                                | Essai de capacité<br>Capacity test |                            |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R68</p> <p><i>For the physical details of this battery see<br/>physical specification sheet R68</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information, see IEC Publication 86-1</i></p> |                                                 |                                                                                    |                                    |                            |
| 86-2-IEC-TR68                                                                                                                                                                                                                                                                                                                |                                                 | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                    |                            |

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|                    |                             |                           |
|--------------------|-----------------------------|---------------------------|
| I E C<br><br>C E I | Pile R69<br><br>Battery R69 | SPECIFICATION<br>PHYSIQUE |
|                    |                             | PHYSICAL<br>SPECIFICATION |
|                    |                             | 86-2-IEC-R69              |

Dimensions (en millimètres)



Dimensions (in millimetres)

| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 2 10 |      |
| B         |      | 1,85 |
| M         |      | 3 8  |
| Ø         | 9 5  | 9,25 |

La partie plane du contact négatif doit dépasser  
*The flat of the negative contact must project*

Le contact positif doit en principe se faire sur le côté de la pile mais pourra aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0 1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1*

Marquage le paragraphe 6 2 est applicable  
*Marking Sub clause 6 2 is applicable*

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

Echelle 2:1  
*Scale 2 1*

Marquage, le paragraphe 6 2 est applicable  
*Marking, Sub-clause 6 2 is applicable*

Les piles correspondant à cette  
feuille de spécification physique sont  
*Batteries complying with this specification are*

LR69, SR69, TR69

Pour information générale, voir Publication 86-1 de la CEI  
*For general information, see IEC Publication 86-1*

86-2-IEC-R69

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|                                                                                                                                                                                                                                                                                                                |                                               |                                           |                                                                                    |              |                                    |  |                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--------------|------------------------------------|--|----------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                             | Pile LR69                                     |                                           |                                                                                    | Battery LR69 |                                    |  | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                | Tension nominale 1,5 V, Nominal voltage 1 5 V |                                           |                                                                                    |              |                                    |  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                |                                               |                                           |                                                                                    |              |                                    |  | 86-2-IEC-LR69              |
| Décharges                                                                                                                                                                                                                                                                                                      |                                               |                                           |                                                                                    |              |                                    |  | Discharges                 |
| Conditions                                                                                                                                                                                                                                                                                                     |                                               |                                           |                                                                                    |              | Applications                       |  |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period        | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                                    |  |                            |
| 33                                                                                                                                                                                                                                                                                                             | 24 h                                          | 1,2                                       |                                                                                    |              | Essai de capacité<br>Capacity test |  |                            |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R69</p> <p>For the physical details of this battery see<br/>physical specification sheet R69</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information, see IEC Publication 86-1</p> |                                               |                                           |                                                                                    |              |                                    |  |                            |
| 86-2-IEC-LR69                                                                                                                                                                                                                                                                                                  |                                               |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                                    |  |                            |

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Withdrawn

|                                                                                                                                                                                                                                                                                                                              |                                                 |                                           |                                                                                    |                                    |                            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|------------------------------------|----------------------------|--|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                           | Pile SR69                                       |                                           | Battery SR69                                                                       |                                    | SPECIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                                              | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                           |                                                                                    |                                    | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                                              |                                                 |                                           |                                                                                    |                                    | 86-2-IEC-SR69              |  |
| Décharges                                                                                                                                                                                                                                                                                                                    |                                                 |                                           |                                                                                    |                                    | Discharges                 |  |
| Conditions                                                                                                                                                                                                                                                                                                                   |                                                 |                                           |                                                                                    | Applications                       |                            |  |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                                         | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |                                    |                            |  |
| 33                                                                                                                                                                                                                                                                                                                           | 24 h                                            | 1,2                                       |                                                                                    | Essai de capacité<br>Capacity test |                            |  |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R69</p> <p><i>For the physical details of this battery see<br/>physical specification sheet R69</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information, see IEC Publication 86-1</i></p> |                                                 |                                           |                                                                                    |                                    |                            |  |
| 86-2-IEC-SR69                                                                                                                                                                                                                                                                                                                |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |                                    |                            |  |

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Withdrawn

|                                                                                                                                                                                                                                                                                                                              |                                                 |                                           |                                                                                    |              |                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--------------|------------------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                           | Pile TR69                                       |                                           | Battery TR69                                                                       |              | SPECIFICATION<br>DU COUPLE         |
|                                                                                                                                                                                                                                                                                                                              | Tension nominale 1,55 V, Nominal voltage 1 55 V |                                           |                                                                                    |              | SYSTEM<br>SPECIFICATION            |
|                                                                                                                                                                                                                                                                                                                              |                                                 |                                           |                                                                                    |              | 86-2-IEC-TR69                      |
| Décharges                                                                                                                                                                                                                                                                                                                    |                                                 |                                           |                                                                                    |              | Discharges                         |
| Conditions                                                                                                                                                                                                                                                                                                                   |                                                 |                                           |                                                                                    | Applications |                                    |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                                         | Cycle<br>journalier<br>Daily<br>period          | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                                    |
| 33                                                                                                                                                                                                                                                                                                                           | 24 h                                            | 1,2                                       |                                                                                    |              |                                    |
|                                                                                                                                                                                                                                                                                                                              |                                                 |                                           |                                                                                    |              | Essai de capacité<br>Capacity test |
| <p>Pour plus de détails sur cette pile, voir la<br/>feuille de spécification physique R69</p> <p><i>For the physical details of this battery see<br/>physical specification sheet R69</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information, see IEC Publication 86-1</i></p> |                                                 |                                           |                                                                                    |              |                                    |
| 86-2-IEC-TR69                                                                                                                                                                                                                                                                                                                |                                                 |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                                    |

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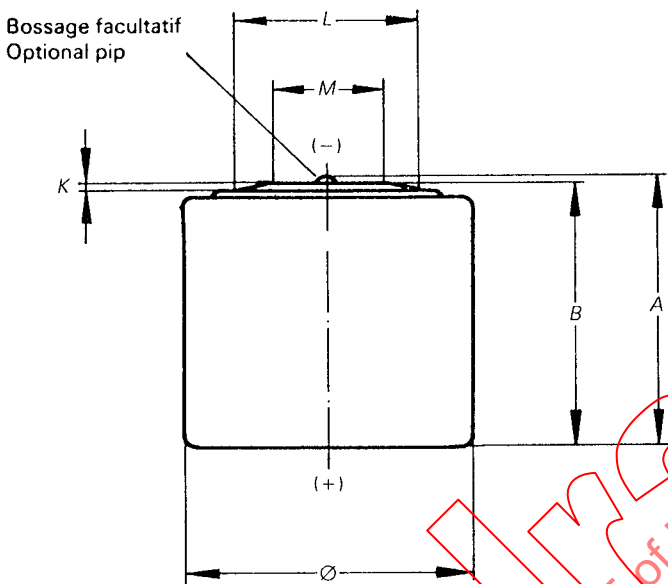
Withdrawn

|                    |                                 |                           |
|--------------------|---------------------------------|---------------------------|
| I E C<br><br>C E I | Pile R0772<br><br>Battery R0772 | SPECIFICATION<br>PHYSIQUE |
|                    |                                 | PHYSICAL<br>SPECIFICATION |
|                    |                                 | 86-2-IEC-R0772            |

Dimensions (en millimètres)

Dimensions (in millimetres)

Bossage facultatif  
Optional pip



| Dimension | Max | Min |
|-----------|-----|-----|
| 1         | 7,2 |     |
| B         |     | 6,7 |
| K         |     | 0,1 |
| L         | 5   |     |
| M         |     | 3,0 |
| Ø         | 7,9 | 7,7 |

La surface cylindrique est reliée au contact positif  
The cylindrical surface is connected to the positive terminal

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1  
Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1

La désignation de cette pile est provisoire en attendant un nouveau système de nomenclature  
The designation of this battery is temporary pending the derivation of a new nomenclature system

Echelle 5:1  
Scale 5:1

Marquage, le paragraphe 6 2 est applicable  
Marking, Sub-clause 6 2 is applicable

Les piles correspondant à cette  
feuille de spécification physique sont  
Batteries complying with this specification are

} CR0772

Pour information générale, voir Publication 86-1 de la CEI  
For general information, see IEC Publication 86-1

86-2-IEC-R0772

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |                                           |                                                                                    |              |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--------------|----------------------------|
| I E C<br><br>C E I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pile CR0772                            |                                           | Battery CR0772                                                                     |              | SPECIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Tension nominale 3 V,                  |                                           | Nominal voltage 3 V                                                                |              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |                                           |                                                                                    |              | 86-2-IEC-CR0772            |
| Décharges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                                           |                                                                                    |              | Discharges                 |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                                           |                                                                                    | Applications |                            |
| Résistance<br>Resistance<br><br>(kΩ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cycle<br>journalier<br>Daily<br>period | Tension<br>d'arrêt<br>End<br>point<br>(V) |                                                                                    |              |                            |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 24 h                                   | 1,2                                       |                                                                                    |              |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |                                           | Essai de capacité<br>Capacity test                                                 |              |                            |
| <p>La désignation de cette pile est provisoire en attendant un nouveau système de nomenclature</p> <p><i>The designation of this battery is temporary pending the derivation of a new nomenclature system</i></p> <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R0772</p> <p><i>For the physical details of this battery see physical specification sheet R0772</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI</p> <p><i>For general information, see IEC Publication 86-1</i></p> |                                        |                                           |                                                                                    |              |                            |
| 86-2-IEC-CR0772                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |                                           | Publication 86-2 de la CEI- Septembre 1989<br>IEC Publication 86-2- September 1989 |              |                            |

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