

INTERNATIONAL STANDARD

IEC
60086-2

Tenth edition
2000-12

Primary batteries –

Part 2: Physical and electrical specifications

Piles électriques–

*Partie 2:
Spécifications physiques et électriques*

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CONTENTS

	Page
FOREWORD	3
INTRODUCTION	5
Clause	
1 Scope	6
2 Normative references	6
3 Definitions	6
4 Symbols and abbreviations	7
5 Battery dimensions	8
6 Constitution of the battery specification tables	8
7 Battery specification tables and sheets	9
– Round batteries: Figure 1a and figure 1b	10
– Round batteries: CR14250, CR17345, CR17450, BR17335, BR17345	16
– Round batteries: Figure 2 and figure 3	18
– Round batteries: Figure 4	20
– Round batteries: R40, 4LR44, 2CR13252, 4SR44, 5AR40,	27
– Non-round batteries: S4, 3R12C, 3R12P, 3R12S, 3LR12, 4LR61, BR-P2, CR-P2, 2CR5, 2EP3863, 4R25X, 4LR25X, 4R25Y, 4R25-2, 4LR25-2, 6AS4, 6AS6, 6F22, 6LR61, 6F100,	30
Annex A (informative) Tabulation of batteries by application	43
Annex B (informative) Cross-reference index	47
Annex C (informative) Index	50

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PRIMARY BATTERIES –

Part 2: Physical and electrical specifications

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
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- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60086-2 has been prepared by IEC technical committee 35: Primary cells and batteries.

This tenth edition cancels and replaces the ninth edition published in 1997 and its amendment 1 (1999) and constitutes a technical revision.

The text of this standard is based on the following documents:

FDIS	Report on voting
35/1136/FDIS	35/1147/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

Annexes A, B and C are for information only.

IEC 60086 consists of the following parts under the general title: *Primary batteries*

- Part 1: General
- Part 2: Physical and electrical specifications
- Part 3: Watch batteries
- Part 4: Safety of lithium batteries
- Part 5: Safety of batteries with aqueous electrolyte

The committee has decided that the contents of this publication will remain unchanged until 2002. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this standard may be issued at a later date.

Withdrawn

INTRODUCTION

The technical content of this part of IEC 60086 provides physical dimensions, discharge test conditions and discharge performance requirements. IEC 60086-2 complements the general information and requirements of IEC 60086-1 through provision of specification sheets for primary cells and batteries.

This part was prepared to benefit primary battery users, device designers and battery manufacturers by furnishing the specifics of form, fit and function for individual standardized primary cells and batteries. Over the years, this part has been changed to improve its contents and may again be revised in due course in the light of comments made by National Committees and experts on the basis of practical experience and changing technology. This current revision is the result of a reformatting initiative, as well as some content changes, aimed at making this part more user-friendly, less ambiguous, and, from a cross-reference basis, fully harmonized with other parts of IEC 60086.

NOTE Safety information as been removed from IEC 60086-1, and is now available in IEC 60086-4 and IEC 60086-5.

PRIMARY BATTERIES –

Part 2: Physical and electrical specifications

1 Scope

This part of IEC 60086 is applicable to primary batteries based on standardized electro-chemical systems.

It specifies – the physical dimensions
– the discharge test conditions and discharge performance requirements.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 60086. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 60086 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 600050(481):1996, *International Electrotechnical Vocabulary – Chapter 481: Primary cells and batteries*

IEC 60086-1:2000, *Primary batteries – Part 1: General*

ISO 1101:1983, *Technical drawings – Geometrical tolerancing – Tolerancing of form, orientation, location and run out – Generalities, definitions, symbols, indication on drawings*