

Primary batteries - Part 2: Physical and electrical specifications

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60086-2:2011 sisaldab Euroopa standardi EN 60086-2:2011 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.04.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

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dimensions, discharge tests, primary batteries, specification sheets, terminals

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English version

**Primary batteries -
Part 2: Physical and electrical specifications
(IEC 60086-2:2011)**

Piles primaires -
Partie 2: Spécifications physiques et
électriques
(CEI 60086-2:2011)

Primärbatterien -
Teil 2: Physikalische und elektrische
Spezifikationen
(IEC 60086-2:2011)

This European Standard was approved by CENELEC on 2011-03-24. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 35/1271/CDV, future edition 12 of IEC 60086-2, prepared by IEC TC 35, Primary cells and batteries, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60086-2 on 2011-03-24.

This European Standard supersedes EN 60086-2:2007.

Significant changes from EN 60086-2:2007 are the deletion of eight battery types from this standard, the addition of an air hole placement diagram and deletion of the resistive hearing aid tests for the P-system (zinc air) hearing aid batteries, standardization of a new form of alkaline (L-system) 9 volt battery (6LP3146), addition of a common designation reference as Annex D and general adjustment of application tests and their minimum average duration values to reflect changes in battery usage.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2011-12-24
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2014-03-24

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60086-2:2011 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60086-3	NOTE Harmonized as EN 60086-3.
IEC 60086-4	NOTE Harmonized as EN 60086-4.
IEC 60086-5	NOTE Harmonized as EN 60086-5.
IEC 62281	NOTE Harmonized as EN 62281.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60086-1	2011	Primary batteries - Part 1: General	EN 60086-1	2011
ISO 1101	2004	Geometrical Product Specifications (GPS) - Geometrical tolerancing - Tolerances of form, orientation, location and run-out	EN ISO 1101	-

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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.

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 is available in IEC 60086-4, IEC 60086-5 and IEC 62281.

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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 referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60086-1:2011, *Primary batteries – Part 1: General*

ISO 1101, *Geometrical product specifications (GPS) – Geometrical tolerancing – Tolerances of form, orientation, location and run-out*

3 Terms, definitions, symbols and abbreviations

For the purposes of this document, the terms, definitions, symbols and abbreviations given in IEC 60086-1 and the following apply.

3.1 Terms and definitions

3.1.1

application test

simulation of the actual use of a battery in a specific application

3.1.2

closed-circuit voltage

CCV (abbreviation)

voltage across the terminals of a battery when it is on discharge

[IEC 60050- 482:2004, 482-03-28, modified]

3.1.3

end-point voltage

EV (abbreviation)

specified voltage of a battery at which the battery discharge is terminated

[IEC 60050-482:2004, 482-03-30, modified]