

STN	Akumulátorové články a batérie obsahujúce alkalické alebo iné nie kyslé elektrolyty Lítiové akumulátorové články a batérie pre prenosné aplikácie Časť 4: Gombíkové lítiové akumulátorové články a z nich vyrobené batérie	STN EN IEC 61960-4 36 4360
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Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications - Part 4: Coin secondary lithium cells, and batteries made from them

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/24

Obsahuje: EN IEC 61960-4:2024, IEC 61960-4:2024

Oznámením tejto normy sa od 03.09.2027 ruší
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 61960-4

September 2024

ICS 29.220.99

Supersedes EN IEC 61960-4:2020

English Version

**Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications - Part 4: Coin secondary lithium cells, and batteries made from them
(IEC 61960-4:2024)**

Accumulateurs alcalins et autres accumulateurs à électrolyte non acide - Accumulateurs au lithium pour applications portables - Partie 4: Éléments et batteries d'accumulateurs boutons au lithium
(IEC 61960-4:2024)

Sekundärzellen und -batterien mit alkalischen oder anderen nicht-säurehaltigen Elektrolyten - Sekundäre Lithiumzellen und -batterien für tragbare Anwendungen - Teil 4: Sekundäre Lithium-Knopfzellen und daraus hergestellte Batterien
(IEC 61960-4:2024)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 61960-4:2024 (E)**European foreword**

The text of document 21A/880/FDIS, future edition 2 of IEC 61960-4, prepared by SC 21A "Secondary cells and batteries containing alkaline or other non-acid electrolytes" of IEC/TC 21 "Secondary cells and batteries" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61960-4:2024.

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IEC 60051 series	NOTE	Approved as EN IEC 60051 series
IEC 60086-1	NOTE	Approved as EN IEC 60086-1
IEC 60086-2	NOTE	Approved as EN IEC 60086-2
IEC 60086-3:2021	NOTE	Approved as EN IEC 60086-3:2021 (not modified)
IEC 61434	NOTE	Approved as EN 61434
IEC 61959	NOTE	Approved as EN 61959
IEC 61960-3	NOTE	Approved as EN 61960-3
IEC 62281	NOTE	Approved as EN IEC 62281
IEC 62368-1	NOTE	Approved as EN IEC 62368-1

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-482	-	International Electrotechnical Vocabulary - Part 482: Primary and secondary cells and batteries	-	-
IEC 60086-4	2019	Primary batteries - Part 4: Safety of lithium batteries	EN IEC 60086-4	2019
IEC 62133-2	2017	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems	EN 62133-2	2017
+ AMD1	2021		+ A1	2021



IEC 61960-4

Edition 2.0 2024-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications – Part 4: Coin secondary lithium cells, and batteries made from them

Accumulateurs alcalins et autres accumulateurs à électrolyte non acide – Accumulateurs au lithium pour applications portables – Partie 4: Éléments et batteries d'accumulateurs boutons au lithium

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IEC 61960-4

Edition 2.0 2024-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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CONTENTS

FOREWORD	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 Parameter measurement tolerances	8
5 Cell designation and marking	8
5.1 Cell designation	8
5.2 Marking	10
5.2.1 General	10
5.2.2 Swallowable cells or batteries	10
6 Electrical tests	11
6.1 General	11
6.2 Charging procedure for test purposes	12
6.3 Discharge performance	12
6.4 Charge (capacity) recovery after long-term storage	13
6.5 Endurance in cycles	13
6.6 Cell or battery internal resistance (AC resistance)	14
6.6.1 General	14
6.6.2 Test – General	14
6.6.3 Measurement	14
6.6.4 Acceptance criterion	15
7 Differentiation	15
Annex A (normative) Requirements for secondary lithium watch batteries	16
A.1 General	16
A.2 Physical requirements	16
A.2.1 Symbols and shape of cell	16
A.2.2 Dimensions and size codes	16
A.3 Test methods for determining the resistance to leakage	17
A.3.1 Preconditioning and initial visual examination	17
A.3.2 High temperature and humidity test	17
A.3.3 Test by temperature cycle	18
A.4 Visual examination and acceptance criteria	18
A.4.1 Preconditioning	18
A.4.2 Magnification	18
A.4.3 Leakage levels and classification	18
A.4.4 Acceptance conditions	19
Annex B (informative) Guidelines for designers of equipment using lithium batteries	20
Bibliography	21
Figure 1 – Dimensional characteristics	9
Figure 2 – Sample sizes and sequence of tests	11
Figure A.1 – Dimensional drawing	16
Figure A.2 – Test by temperature cycles	18
Table 1 – Electrochemical systems in current practical use	9

Table 2 – Examples of generally used upper limit charge voltage.....	12
Table 3 – Example of generally used lower limit of end-of-discharge voltage	13
Table 4 – Minimum number of cycles	14
Table A.1 – Dimensions and size codes for watch batteries	17
Table A.2 – Storage conditions	17
Table B.1 – Equipment design guidelines.....	20

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR
OTHER NON-ACID ELECTROLYTES – SECONDARY LITHIUM CELLS
AND BATTERIES FOR PORTABLE APPLICATIONS –****Part 4: Coin secondary lithium cells, and batteries made from them**

FOREWORD

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IEC 61960-4 has been prepared by subcommittee 21A: Secondary cells and batteries containing alkaline or other non-acid electrolytes, of IEC technical committee 21: Secondary cells and batteries, in cooperation with ISO technical committee 114: Horology. It is an International Standard.

This second edition cancels and replaces the first edition published in 2020. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) added an annex to standardize requirements for secondary lithium watch batteries;
- b) added new chemistries;

- c) added a table to standardize dimensions and size codes for secondary lithium watch batteries;
- d) modified marking requirements.

The text of this International Standard is based on the following documents:

Draft	Report on voting
21A/880/FDIS	21A/892/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 61960 series, published under the general title *Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
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SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES – SECONDARY LITHIUM CELLS AND BATTERIES FOR PORTABLE APPLICATIONS –

Part 4: Coin secondary lithium cells, and batteries made from them

1 Scope

This part of IEC 61960 specifies performance tests, designations, markings, dimensions and other requirements for coin secondary lithium cells and batteries for portable applications, watches, and backup power supply such as memory backup applications. In particular, watch-specific requirements are specified in Annex A.

This document provides purchasers and users of coin secondary lithium cells and batteries with a set of criteria with which they can assess the performance of coin secondary lithium cells and batteries offered by various manufacturers.

This document defines a minimum required level of performance and a standardized methodology by which testing is performed and the results of this testing are reported to the user. Hence, users will be able to establish the viability of commercially available cells and batteries via the declared specification and thus be able to select the cell or battery best suited for their intended application.

This document covers coin secondary lithium cells and batteries with a range of chemistries. Each electrochemical couple has a characteristic voltage range over which, during discharge, it releases its electrical capacity, a characteristic nominal voltage and a characteristic end-of-discharge voltage. Users of coin secondary lithium cells and batteries are requested to consult the manufacturer for advice.

This document also provides guidelines for designers of equipment using lithium batteries (see Annex B).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60050-482, *International Electrotechnical Vocabulary (IEV) – Part 482: Primary and secondary cells and batteries*

IEC 60086-4:2019, *Primary batteries – Part 4: Safety of lithium batteries*

IEC 62133-2:2017, *Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications – Part 2: Lithium systems*

IEC 62133-2:2017/AMD1:2021

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