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High-temperature secondary batteries - Part 2: Safety requirements and tests

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. 09/20

Obsahuje: EN IEC 62984-2:2020, IEC 62984-2:2020

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English Version

High-temperature secondary batteries - Part 2: Safety requirements and tests (IEC 62984-2:2020)

Batteries d'accumulateurs à haute température - Partie 2:
Exigences de sécurité et essais
(IEC 62984-2:2020)

Hochtemperatur-Sekundärbatterien - Teil 2:
Sicherheitsanforderungen und Prüfungen von Zellen und
Batterien
(IEC 62984-2:2020)

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

EN IEC 62984-2:2020 (E)**European foreword**

The text of document 21/1032/FDIS, future edition 1 of IEC 62984-2, prepared by IEC/TC 21 "Secondary cells and batteries" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62984-2:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-01-15
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-04-15

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

IEC 60068-2-64	NOTE	Harmonized as EN 60068-2-64
IEC 60068-2-75	NOTE	Harmonized as EN 60068-2-75
IEC 60721-3-2	NOTE	Harmonized as EN IEC 60721-3-2
IEC 60952 (series)	NOTE	Harmonized as EN 60952 (series)
IEC 61982 (series)	NOTE	Harmonized as EN 61982 (series)
IEC 62262	NOTE	Harmonized as EN 62262
IEC 61373	NOTE	Harmonized as EN 61373

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.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-18	2017	Environmental testing - Part 2-18: Tests - Test R and guidance: Water	EN 60068-2-18	2017
IEC 60112	-	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN 60112	-
IEC 60204-1	-	Safety of machinery - Electrical equipment of machines - Part 1: General requirements	EN 60204-1	-
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	-	-
IEC 60664-1	2007	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests	EN 60664-1	2007
IEC 61140	2016	Protection against electric shock - Common aspects for installation and equipment	EN 61140	2016
IEC 61508	series	Functional safety of electrical/electronic/programmable electronic safety-related systems	EN 61508	series
IEC 62984-1	2020	High-temperature secondary batteries - Part 1: General requirements	-	-



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Edition 1.0 2020-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**High-temperature secondary batteries –
Part 2: Safety requirements and tests**

**Batteries d'accumulateurs à haute température –
Partie 2: Exigences de sécurité et essais**





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IEC 62984-2

Edition 1.0 2020-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**High-temperature secondary batteries –
Part 2: Safety requirements and tests**

**Batteries d'accumulateurs à haute température –
Partie 2: Exigences de sécurité et essais**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HIGH-TEMPERATURE SECONDARY BATTERIES –**Part 2: Safety requirements and tests**

FOREWORD

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International Standard IEC 62984-2 has been prepared by IEC technical committee 21: Secondary cells and batteries.

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

FDIS	Report on voting
21/1032/FDIS	21/1042/RVD

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This document is to be read in conjunction with IEC 62984-1:2020.

A list of all parts in the IEC 62984 series, published under the general title *High-temperature secondary batteries*, 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 "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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HIGH-TEMPERATURE SECONDARY BATTERIES –

Part 2: Safety requirements and tests

1 Scope

This part of IEC 62984 specifies safety requirements and test procedures for high-temperature batteries for mobile and/or stationary use and whose rated voltage does not exceed 1 500 V.

This document does not cover aircraft batteries, which are covered by IEC 60952 (all parts), and batteries for the propulsion of electric road vehicles, covered by IEC 61982 (all parts).

NOTE High-temperature batteries are electrochemical systems whose cells' internal minimum operating temperature is above 100 °C.

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 60068-2-18:2017, *Environmental testing – Part 2-18: Tests – Test R and guidance: Water*

IEC 60112, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*

IEC 60204-1, *Safety of machinery – Electrical equipment of machines – Part 1: General requirements*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 60664-1:2007, *Insulation coordination for equipment within low-voltage systems – Part 1: Principles, requirements and tests*

IEC 61140:2016, *Protection against electric shock – Common aspects for installation and equipment*

IEC 61508 (all parts), *Functional safety of electrical/electronic/programmable electronic safety-related systems*

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