SLOVENSKI STANDARD
SIST EN IEC 63218:2021

01-december-2021

Sekundarni členi in baterije z alkalnimi ali drugimi nekislinskimi elektroliti - Sekundarni litijevi, nikelj-kadmijevi in nikelj-kovinski hidridni členi in baterije za prenosne naprave - Navodilo glede okoljskih vidikov

Secondary cells and batteries containing alkaline and other non-acid electrolyte - Secondary Lithium , Nickel Cadmium , and Nickel Metal Hydride cells and batteries for portable applications - Guidance on environmental aspects

Ta slovenski standard je istoveten z: **EN IEC 63218:2021**

ICS:

29.220.30	Alkalni sekundarni členi in baterije	Alkaline secondary cells and batteries

SIST EN IEC 63218:2021 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 63218

October 2021

ICS 29.220.30

English Version

Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium, nickel cadmium and nickel-metal hydride cells and batteries for portable applications - Guidance on environmental aspects (IEC 63218:2021)

Accumulateurs alcalins et autres accumulateurs à électrolyte non acide - Accumulateurs et batteries d'accumulateurs lithium, nickel-cadmium et nickel-métal hydrure pour applications portables - Recommandations relatives aux aspects environnementaux (IEC 63218:2021)

Sekundärzellen und -batterien mit alkalischen oder anderen nicht-säurehaltigen Elektrolyten - Lithium-, Nickel-Cadmium- und Nickel-Metallhydrid-Sekundärzellen und -batterien für tragbare Anwendungen - Leitfaden zu Umweltaspekten (IEC 63218:2021)

This European Standard was approved by CENELEC on 2021-10-04. 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

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

European foreword

The text of document 21A/763/FDIS, future edition 1 of IEC 63218, 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 63218:2021.

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) 2022–07–04
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024–10–04

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Endorsement notice

The text of the International Standard IEC 63218:2021 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 60086-6:2020 NOTE Harmonized as EN IEC 60086-6:2020 (not modified)

IEC 62281:2019 NOTE Harmonized as EN IEC 62281:2019 (not modified)

IEC 62321:2008 NOTE Harmonized as EN 62321:2009 (not modified)

IEC 62321-5:2013 NOTE Harmonized as EN 62321-5:2014 (not modified)

IEC 62430:2019 NOTE Harmonized as EN IEC 62430:2019 (not modified)

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

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.

Publication	Year	Title	EN/HD	Year
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	EN 62133-2	2017
+ AMD1	2021		+ A1	2021
IEC 62902	-	Secondary cells and batteries - Marking symbols for identification of their chemistry	EN IEC 62902	-
ISO 7000	-	Graphical symbols for use on equipment -- Registered symbols		-
ISO 14021	2016	Environmental labels and declarations – Self-declared environmental claims (Type II environmental labelling)	EN ISO 14021	2016
ISO 14040	2006	Environmental management - Life cycle assessment - Principles and framework	EN ISO 14040	2006

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INTERNATIONAL STANDARD

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Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium, nickel cadmium and nickel-metal hydride cells and batteries for portable applications – Guidance on environmental aspects

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SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES – SECONDARY LITHIUM, NICKEL CADMIUM AND NICKEL-METAL HYDRIDE CELLS AND BATTERIES FOR PORTABLE APPLICATIONS – GUIDANCE ON ENVIRONMENTAL ASPECTS

FOREWORD

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IEC 63218 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. It is an International Standard.

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

FDIS	Report on voting
21A/763/FDIS	21A/768/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/standardsdev/publications.

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

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

IMPORTANT – The "colour inside" logo on the cover page of this document indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

Secondary batteries, such as secondary lithium, nickel cadmium (Ni-Cd) and nickel-metal hydride cells and batteries, consume a large amount of non-renewable resources like copper, manganese, lithium, and nickel. In addition to that, Ni-Cd cells and batteries include hazardous material like cadmium as a negative electrode. Nevertheless, there is no international environmental standard for secondary batteries.

The primary purpose of this document is to contribute to improving environmental sustainability by providing:

a) basic consideration and information relating to the environmental aspects and environmental impact of secondary cells and batteries;
b) basic guidance for the collection and recycling of secondary cells and batteries;
c) basic guidance for environmental impact assessment across all life cycle stages for the designing and manufacturing of secondary cells and batteries;
d) useful information for interested parties regarding regulations on secondary cells and batteries.

Additionally various countries and regions have their own environmental regulations for secondary cells and batteries. These differing regulations could lead to trade barriers in the future. Therefore, the secondary purpose of this document is to avoid potential trade barrier issues by providing countries and regions that lack secondary battery collection and recycling regulations with guidance with which they can establish harmonized standardization with the international standard.

This document is not intended to be applied for the certification of specific products.

This document provides guidance and recommendations for the collection, recycling, environmental impact assessment, including design, manufacturing, transportation, storage and disposal of secondary cells and batteries.

Collection and recycling are activities that are conducted across national borders. Therefore, international standards are necessary in addition to transport regulations.

The expected users of this document are:

1) cell and battery manufacturers, end-product manufacturers, recycling organizations, transport organizations and distributors;
2) national, regional, and local authorities that establish the regulation of the collection and recycling, environmental impact assessment, including design, manufacturing, transportation, storage and disposal of secondary cells and batteries;
3) national, regional, and local authorities that revise the regulation of the collection and recycling, environmental impact assessment, including design, manufacturing, transportation, storage and disposal of secondary cells and batteries.

However, this document does not preclude other stakeholders from using this document.

National and regional standards, regulations and voluntary stewardship programmes are given priority in the matters covered in this document.