
Sekundarni členi in baterije z alkalnimi ali drugimi nekislinskimi elektroliti - Varnostne zahteve za sekundarne litijeve člene in baterije za uporabo v električnih napravah za shranjevanje energije - 1. del: Namenjene za instalacije, ki zagotavljajo dodatne varnostne ukrepe

Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries for use in electrical energy storage systems - Part 1: Intended for installations that provide additional safeguards

Sekundärzellen und -batterien mit alkalischen oder anderen nicht-säurehaltigen Elektrolyten - Sicherheitsanforderungen für Lithium-Sekundärzellen und -batterien für die Verwendung in elektrischen Energiespeichersystemen

Accumulateurs alcalins et autres accumulateurs à électrolyte non acide - Exigences de sécurité pour les accumulateurs au lithium pour utilisation dans des systèmes de stockage d'énergie électrique

Ta slovenski standard je istoveten z: prEN IEC 63056-1:2026

ICS:

29.220.30	Alkalni sekundarni členi in baterije	Alkaline secondary cells and batteries
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oSIST prEN IEC 63056-1:2026

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21A/983/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER: IEC 63056-1 ED1	
DATE OF CIRCULATION: 2026-06-26	CLOSING DATE FOR VOTING: 2026-09-18
SUPERSEDES DOCUMENTS: 21A/933/CD, 21A/954A/CC	

IEC SC 21A : SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES	
SECRETARIAT: France	SECRETARY: Mr Jean-Marie Bodet
OF INTEREST TO THE FOLLOWING COMMITTEES: TC 21, TC 120	HORIZONTAL FUNCTION(S):
ASPECTS CONCERNED: Safety	
☒ SUBMITTED FOR CENELEC PARALLEL VOTING	☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING
Attention IEC-CENELEC parallel voting The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	

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Recipients of this document are invited to submit, with their comments, notification of any relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries for use in electrical energy storage systems – Part 1: Intended for installations that provide additional safeguards

PROPOSED STABILITY DATE: 2030

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NOTE FROM TC/SC OFFICERS:

The split of the initial standard IEC 63056 into two parts was approved by the National Committees (21/975/RQ) on 2026-03-06.

IEC 63056, Edition 2, therefore becomes IEC 63056-1.

The title for IEC 63056-1 is as follows:

First proposal (21A/975/RQ):

Secondary cells and batteries containing alkaline or other non acid electrolytes – Safety requirements for secondary lithium cells and batteries for use in electrical energy storage systems – Battery systems intended to be safe with dedicated battery rooms

Updated proposal, based on consensus reached by the Project Team for CDV:

Secondary cells and batteries containing alkaline or other non acid electrolytes – Safety requirements for secondary lithium cells and batteries for use in electrical energy storage systems – Part 1: Intended for installations that provide additional safeguards

The proposed CDV was presented to and approved by the experts of WG5 during the IEC SC 21A WG5 virtual meeting held on 2026 04 23.

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Link to Committee Draft for Vote (CDV) online document:

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How to access

This link leads you to the Online Standards Development (OSD) platform for National Mirror Committee's (NMC) comments. The project draft may be found further down this document.

Resource materials

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- [OSD NC roles overview](#)
- [How to add and submit comments to the IEC](#)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries for use in electrical energy storage systems –
Part 1: Intended for installations that provide additional safeguards**

FOREWORD

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IEC 63056 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.

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) ...;

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

Draft	Report on voting
XX/XX/FDIS	XX/XX/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 [change language if necessary].

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 http://www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at <http://www.iec.ch/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, or
- revised.

INTRODUCTION

This document specifies safety requirements for secondary lithium cells and batteries covered by the scope in [Clause 1](#), and intended for use in stationary electrical energy storage systems.

Basic safety requirements for the secondary lithium cells and batteries used in industrial applications, including stationary application, are included in IEC 62619 as shown in [Figure 1](#).

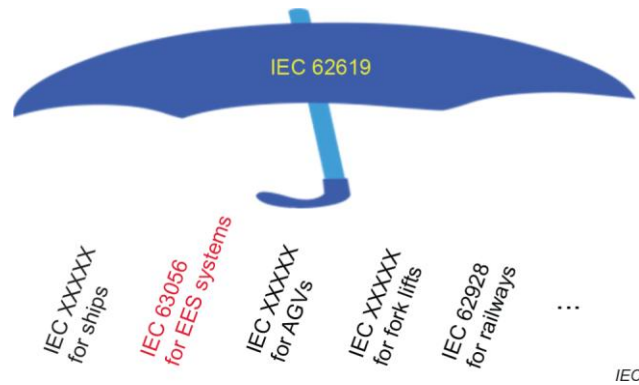


Figure 1 – IEC 62619 as umbrella standard to various industrial applications

This document provides additional or specific requirements for batteries intended to be used with stationary electrical energy storage systems.

Since this document covers battery systems for use in various stationary electrical energy storage systems, it includes those requirements which are common and minimum to a stationary electrical energy storage systems application.

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1 Scope

This document specifies requirements and tests for the product safety of secondary lithium cells and batteries used in stationary electrical energy storage systems (Figure 2 and Figure 3) with a maximum DC voltage of 1500 V.

This document applies to battery system intended for installation only accessible to electrically skilled person and :

- In dedicated technical rooms or enclosures (such as buildings, cabinets or containers) that are equipped with additional safety features (such as fire suppression, ventilation, gas detection) or thermal management systems. And, or,
- In installations where the consequences of fire and/or deflagration are mitigated through safeguards provided by the installation (e.g. distance, walls, enclosures and explosion relief vents).

NOTE Whenever this standard makes reference to ambient condition, this reference means the ambient condition of the battery system is inside the enclosure or room. The auxiliary equipment(s) in the enclosure or room needs to ensure that these ambient conditions are met under the external (i.e. outdoor) ambient conditions.

Examples of battery systems applications that are within the scope of this document are, but not limited to:

- telecommunications,
- central emergency lighting and alarm systems,
- stationary engine starting,
- photovoltaic and grid-connected storage systems,
- large or utility energy storage (on-grid/off-grid),
- uninterruptible power supplies (UPS)

This document does not apply to portable systems, or battery system below 500 Wh, which are covered by IEC 61960-3 [1].

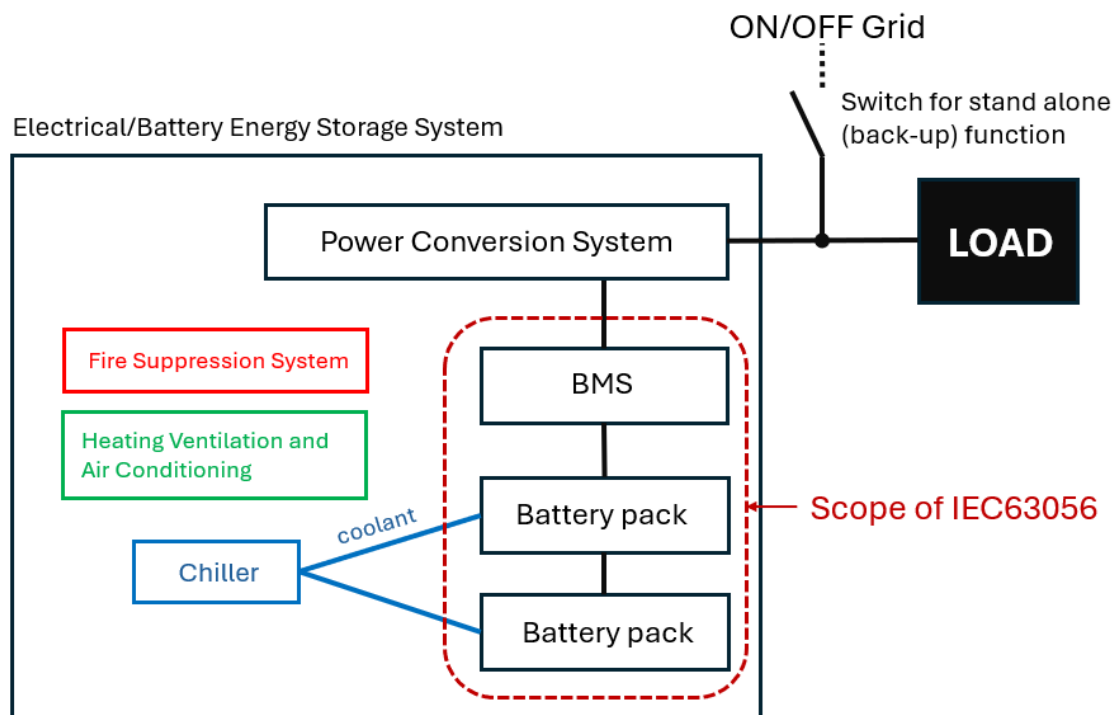


Figure 2 – Scope example of IEC 63056 with single battery system

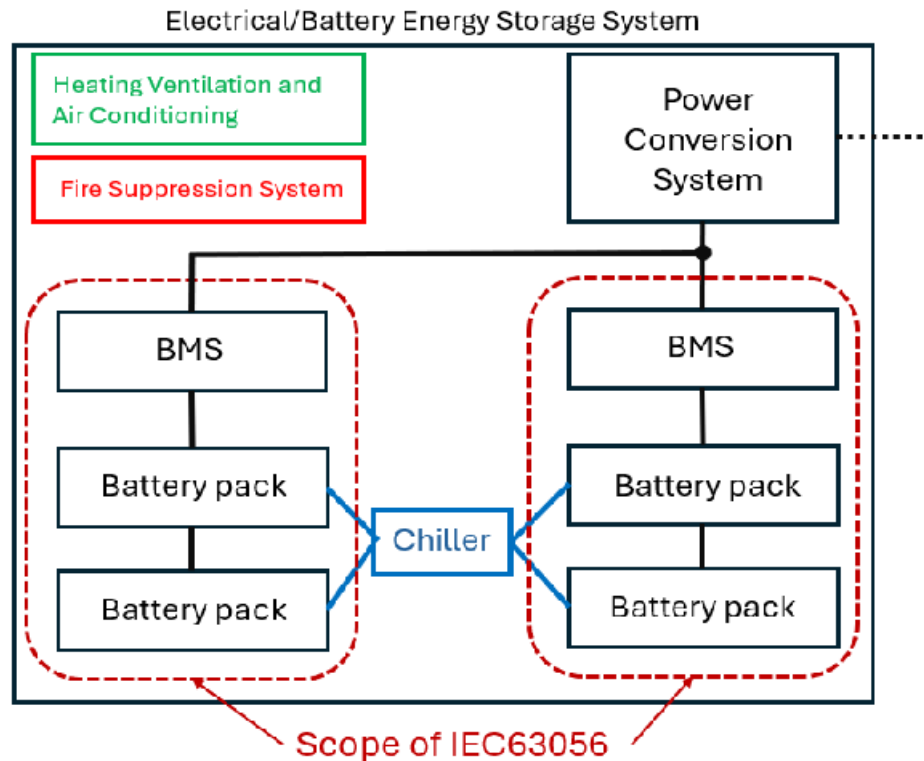


Figure 3 – Scope example of IEC 63056 with multiple battery systems in parallel

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* (available at <http://www.electropedia.org/>)

IEC 60364-4-41:2005, *Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock*

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*

IEC 60664-1:2020, *Insulation coordination for equipment within low-voltage supply system - Part 1: Principles, requirements and tests*

IEC 60695-10-2, *Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test method*

IEC 60695-11-10, *Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods*

IEC 60730-1:2022, *Automatic electrical controls - Part 1: General requirements*

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

IEC 61140, *Protection against electric shock - Common aspects for installation and equipment*