



**NSAI**  
Standards

Irish Standard  
I.S. EN IEC 63057:2020

Secondary cells and batteries containing alkaline or other non-acid electrolytes -  
Safety requirements for secondary lithium batteries for use in road vehicles not for the propulsion

**I.S. EN IEC 63057:2020**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN IEC 63057:2020 is the adopted Irish version of the European Document EN IEC 63057:2020, Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium batteries for use in road vehicles not for the propulsion

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EUROPEAN STANDARD

**EN IEC 63057**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2020

ICS 29.220.30

English Version

**Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium batteries for use in road vehicles not for the propulsion  
(IEC 63057:2020)**

Accumulateurs alcalins et autres accumulateurs à électrolyte non acide - Exigences de sécurité pour les batteries d'accumulateurs au lithium destinées à être utilisées dans les véhicules routiers, mais non destinées à la propulsion  
(IEC 63057:2020)

Akkumulatoren und Batterien mit alkalischen oder anderen nichtsäurehaltigen Elektrolyten - Sicherheitsanforderungen für Lithium-Batterien zur Verwendung in Straßenfahrzeugen mit Ausnahme des Antriebs  
(IEC 63057:2020)

This European Standard was approved by CENELEC on 2020-02-14. 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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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

**EN IEC 63057:2020 (E)****European foreword**

The text of document 21A/715/FDIS, future edition 1 of IEC 63057, 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 63057:2020.

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) 2020-11-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-02-14

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

IEC 62281	NOTE	Harmonized as EN IEC 62281
IEC 62620:2014	NOTE	Harmonized as EN 62620:2015 (not modified)
IEC 63118	NOTE	Harmonized as EN 63118 <sup>1</sup>
ISO 9001	NOTE	Harmonized as EN ISO 9001

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<sup>1</sup> To be published. Stage at the time of publication: prEN 63118:2017.

## 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](http://www.cenelec.eu).

<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 62619	2017	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications	EN 62619	2017
ISO/IEC Guide 51	-	Safety aspects - Guidelines for their inclusion in standards	-	-

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**IEC 63057**

Edition 1.0 2020-01

# **INTERNATIONAL STANDARD**

## **NORME INTERNATIONALE**

**Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium batteries for use in road vehicles not for the propulsion**

**Accumulateurs alcalins et autres accumulateurs à électrolyte non acide – Exigences de sécurité pour les batteries d'accumulateurs au lithium destinées à être utilisées dans les véhicules routiers, mais non destinées à la propulsion**



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**IEC 63057**

Edition 1.0 2020-01

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium batteries for use in road vehicles not for the propulsion**

**Accumulateurs alcalins et autres accumulateurs à électrolyte non acide – Exigences de sécurité pour les batteries d'accumulateurs au lithium destinées à être utilisées dans les véhicules routiers, mais non destinées à la propulsion**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE  
OR OTHER NON-ACID ELECTROLYTES –  
SAFETY REQUIREMENTS FOR SECONDARY LITHIUM  
BATTERIES FOR USE IN ROAD VEHICLES  
NOT FOR THE PROPULSION**

## FOREWORD

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International Standard IEC 63057 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.

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

FDIS	Report on voting
21A/715/FDIS	21A/719/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.

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# **SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES – SAFETY REQUIREMENTS FOR SECONDARY LITHIUM BATTERIES FOR USE IN ROAD VEHICLES NOT FOR THE PROPULSION**

## **1 Scope**

This document specifies safety tests and requirements for secondary lithium batteries permanently installed in road vehicles not for the propulsion. Replacement secondary batteries permanently installed in road vehicles not for propulsion are covered by this document.

The following are typical applications that utilize the batteries under the scope of this document: a power source for the starting of internal combustion engines, lighting, on-board auxiliary equipment, and energy absorption for regeneration from braking.

This document applies to batteries with a maximum voltage less than or equal to 60 V DC.

The batteries primarily used for propulsion of electric vehicles (EVs), including battery electric vehicles (BEVs), hybrid electric vehicles (HEVs), and plug-in hybrid electric vehicles (PHEVs) are not covered by this document.

NOTE Testing on cell level is specified in IEC 62619.

## **2 Normative references**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 62619:2017, *Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries, for use in industrial applications*

ISO/IEC Guide 51, *Safety aspects – Guidelines for their inclusion in standards*

## **3 Terms and definitions**

For the purposes of this document, the terms and definitions given in IEC 60050-482, ISO/IEC Guide 51 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

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