Irish Standard
I.S. EN 61056-2:2012

General purpose lead-acid batteries (valve-regulated types) -- Part 2: Dimensions, terminals and marking (IEC 61056-2:2012 (EQV) + corrigendum Oct. 2012 (EQV))

I.S. EN 61056-2:2012

Incorporating amendments/corrigenda issued since publication:

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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EUROPEAN STANDARD

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EN 61056-2

December 2012

ICS 29.220.20

Supersedes EN 61056-2:2003

English version

General purpose lead-acid batteries (valve-regulated types) - Part 2: Dimensions, terminals and marking

(IEC 61056-2:2012 + corrigendum Oct. 2012)

Batteries d'accumulateurs au plomb-acide pour usage général (types à soupapes) - Partie 2: Dimensions, bornes et marquage (CEI 61056-2:2012 + corrigendum Oct. 2012)

Bleibatterien für allgemeine Anwendungen (verschlossen) - Teil 2: Maße, Anschlüsse und Kennzeichnung (IEC 61056-2:2012 + corrigendum Oct. 2012)

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Ref. No. EN 61056-2:2012 E

Foreword

The text of document 21/766/FDIS, future edition 3 of IEC 61056-2, prepared by IEC/TC 21 "Secondary cells and batteries" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61056-2:2012.

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)	2013-06-14
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2015-03-28

This document supersedes EN 61056-2:2003.

The main changes consist in adding new battery designations and an update of the requirements like the one concerning the marking.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 61056-2:2012 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 60051-1:1997	NOTE	Harmonized as EN 60051-1:1998 (not modified).
IEC 60095 series	NOTE	Harmonized in EN 60095 series.
IEC 60254 series	NOTE	Harmonized in EN 60254 series.
IEC 60896 series	NOTE	Harmonized in EN 60896 series.
IEC 61429	NOTE	Harmonized as EN 61429.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60445	-	Basic and safety principles for man-machine interface, marking and identification - Identification of equipment terminals, conductor terminations and conductors	EN 60445	-
IEC 61056-1	2012	General purpose lead-acid batteries (valve-regulated types) - Part 1: General requirements, functional characteristics - Methods of test	EN 61056-1	2012

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) –

Part 2: Dimensions, terminals and marking

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61056-2 has been prepared by IEC technical committee 21: Secondary cells and batteries.

This third edition cancels and replaces the second edition of IEC 61056-2 published in 2002. It constitutes a technical revision.

The main changes consist in adding new battery designations and an update of the requirements like the one concerning the marking.

The text of this standard is based on the following documents:

FDIS	Report on voting
21/766/FDIS	21/773/RVD

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

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

A list of all parts of the IEC 61056 series, published under the general title *General purpose lead-acid batteries (valve-regulated types)*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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

The contents of the corrigendum of October 2012 have been included in this copy.

GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) –

Part 2: Dimensions, terminals and marking

1 Scope

This part of IEC 61056 specifies the dimensions, terminals and marking for all general purpose lead–acid cells and batteries of the valve regulated type :

- for either cyclic or float charge application;
- in portable equipment, for instance, incorporated in tools, toys, or in static emergency, or uninterruptible power supply and general power supplies.

The cells of this kind of lead–acid battery may either have flat-plate electrodes in prismatic containers or have spirally wound pairs of electrodes in cylindrical containers. The sulphuric acid in these cells is immobilized between the electrodes either by absorption in a microporous structure or in a gelled form.

This standard defines the dimensions of the batteries in length, height and width, as well as the shapes of the terminals.

The lead-acid cells and batteries which are described in this standard should be tested according to the requirements of IEC 61056-1.

This part of IEC 61056 does not apply for example to lead-acid cells and batteries used for

- vehicle engine starting applications (IEC 60095 series),
- traction applications (IEC 60254 series) or
- stationary applications (IEC 60896 series).

Conformance to this standard requires that dimensions, terminals and marking correspond to these requirements.

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 60445, *Basic and safety principles for man-machine interface, marking and identification – Identification of equipment terminals, conductor terminations and conductors*

IEC 61056-1:2012, *General purpose lead-acid batteries (valve-regulated types) – Part 1:General requirements, functional characteristics – Methods of test*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61056-1, as well as the following apply.