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

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EUROPEAN STANDARD

EN 61056-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2003

ICS 29.220.20

Supersedes EN 61056-2:1996

English version

**General purpose lead-acid batteries (valve-regulated types)
Part 2: Dimensions, terminals and marking
(IEC 61056-2:2002)**

Batteries d'accumulateurs au plomb-acide
pour usage général (types à soupapes)
Partie 2: Dimensions, bornes et marquage
(CEI 61056-2:2002)

Bleibatterien für allgemeine Anwendungen
(verschlossen)
Teil 2: Maße, Anschlüsse und
Kennzeichnung
(IEC 61056-2:2002)

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This European Standard was approved by CENELEC on 2002-12-01. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 21/569/FDIS, future edition 2 of IEC 61056-2, prepared by IEC TC 21, Secondary cells and batteries, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61056-2 on 2002-12-01.

This European Standard supersedes EN 61056-2:1996.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2003-09-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2005-12-01

Endorsement notice

The text of the International Standard IEC 61056-2:2002 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	NOTE	Harmonized as EN 60051-1:1998 (not modified).
IEC 60095	NOTE	Harmonized as EN 50342:2001 and in EN 60095 series (modified).
IEC 60254	NOTE	Harmonized in EN 60254 series (not modified).
IEC 60896	NOTE	Harmonized in EN 60896 series (not modified).

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INTERNATIONALE
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STANDARD

CEI
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61056-2

Deuxième édition
Second edition
2002-10

**Batteries d'accumulateurs au plomb-acide
pour usage général (types à soupapes) –**

**Partie 2:
Dimensions, bornes et marquage**

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**General purpose lead-acid batteries
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**Part 2:
Dimensions, terminals and marking**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**GENERAL PURPOSE LEAD-ACID BATTERIES
(VALVE-REGULATED TYPES) –**
Part 2: Dimensions, terminals and marking

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
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International Standard IEC 61056-2 has been prepared by IEC technical committee 21: Secondary cells and batteries.

This second edition cancels and replaces the first edition, published in 1994, and constitutes a technical revision.

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

FDIS	Report on voting
21/569/FDIS	21/574/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 3.

IEC 61056 séries, published under the general title *General purpose lead-acid batteries (valve-regulated types)* consists of the following parts:

- Part 1: *General requirements – Methods of test*
- Part 2: *Dimensions, terminals and marking*
- Part 3: *Safety recommendations for use in electric appliances*¹

The committee has decided that the contents of this publication will remain unchanged until 2009. At this date, the publication will be

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

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¹ Published in 1991, IEC/TR 61056-3 bears the general title *Portable lead-acid cells and batteries (valve-regulated types)*.

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

Part 2: Dimensions, terminals and marking

1 Scope and object

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 IEC 61056-2 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 shall correspond to these requirements.

2 Dimensions

The standardized battery dimensions are listed in Tables 1 and 2, together with nominal voltage, configuration, and capacity.

3 Terminals

Terminal types and dimensions are depicted in Figures 3, 4, 5, 6 and 7.