



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 60896-11:2003**

ICS 29.220.20

**STATIONARY LEAD-ACID BATTERIES  
PART 11: VENTED TYPES -  
GENERAL REQUIREMENTS AND METHODS  
OF TESTS  
(IEC 60896-11:2002)**

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EUROPEAN STANDARD

**EN 60896-11**

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2003

ICS 29.220.20

Supersedes EN 60896-1:1991 + A2:1992

English version

**Stationary lead-acid batteries  
Part 11: Vented types -  
General requirements and methods of tests  
(IEC 60896-11:2002)**

Batteries stationnaires au plomb  
Partie 11: Batteries au plomb  
du type ouvert -  
Prescriptions générales  
et méthodes d'essai  
(CEI 60896-11:2002)

Ortsfeste Blei-Akkumulatoren  
Teil 11: Geschlossene Batterien -  
Allgemeine Anforderungen und  
Prüfverfahren  
(IEC 60896-11:2002)

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**

EN 60896-11:2003

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### Foreword

The text of document 21/572/FDIS, future edition 1 of IEC 60896-11, prepared by IEC TC 21, Secondary cells and batteries, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60896-11 on 2002-12-01.

This European Standard supersedes EN 60896-1:1991 + A2:1992.

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

Annexes designated "normative" are part of the body of the standard.  
Annexes designated "informative" are given for information only.  
In this standard, annex ZA is normative and annex A is informative.  
Annex ZA has been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 60896-11:2002 was approved by CENELEC as a European Standard without any modification.

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-151	- <sup>1)</sup>	International Electrotechnical Vocabulary (IEV) Part 151: Electrical and magnetic devices	-	-
IEC 60051	Series	Direct acting indicating analogue electrical measuring instruments and their accessories	EN 60051	Series
IEC 60359	- <sup>1)</sup>	Electrical and electronic measurement equipment - Expression of performance	EN 60359	2002 <sup>2)</sup>
IEC 60417	Series	Graphical symbols for use on equipment	EN 60417	Series
IEC 60485	- <sup>1)</sup>	Digital electronic d.c. voltmeters and d.c. electronic analogue-to-digital converters	-	-

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.



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