



National Standards Authority of Ireland

STANDARD

**I.S. EN 60896-21:2004**

ICS 29.220.20

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**STATIONARY LEAD-ACID BATTERIES, PART  
21: VLAIVE REGULATED TYPES - METHODS  
OF TEST (IEC 60896-21:2004)**

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EUROPEAN STANDARD

**EN 60896-21**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2004

ICS 29.220.20

Supersedes EN 60896-2:1996

English version

**Stationary lead-acid batteries**  
**Part 21: Valve regulated types –**  
**Methods of test**  
(IEC 60896-21:2004)

Batteries stationnaires au plomb  
Partie 21: Types étanches à soupapes -  
Méthodes d'essais  
(CEI 60896-21:2004)

Ortsfeste Blei-Akkumulatoren  
Teil 21: Verschlussene Bauarten -  
Prüfverfahren  
(IEC 60896-21:2004)

This European Standard was approved by CENELEC on 2004-03-01. 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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 21/594/FDIS, future edition 1 of IEC 60896-21, prepared by IEC TC 21, Secondary cells and batteries, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60896-21 on 2004-03-01.

This European Standard supersedes EN 60896-2:1996.

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) 2004-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-03-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60896-21:2004 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 60050-826	NOTE	Harmonized as HD 384.2 S1:1986 (not modified).
IEC 60095	NOTE	Harmonized in EN 60095 series (partly modified).
IEC 61056	NOTE	Harmonized in EN 61056 series (not modified).
IEC 61427	NOTE	Harmonized as EN 61427:2001 (not modified).
ISO 9000	NOTE	Harmonized as EN ISO 9000:2000 (not modified).
ISO 9001	NOTE	Harmonized as EN ISO 9001:1994 (not modified).
ISO 9001	NOTE	Harmonized as EN ISO 9001:2000 (not modified).

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## Annex ZA (normative)

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

The following referenced documents are indispensable for the application 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 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 60068-2-32	1975	Basic environmental testing procedures Part 2: Tests - Test Ed: Free fall (Procedure 1)		
+ A2	1990		HD 323.2.32 S2	1991
IEC 60695-11-10	- <sup>1)</sup>	Fire hazard testing Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	EN 60695-11-10	1999 <sup>2)</sup>
IEC 60707	- <sup>1)</sup>	Flammability of solid non-metallic materials when exposed to flame sources - List of test methods	EN 60707	1999 <sup>2)</sup>
IEC 60896-22	2004	Stationary lead-acid batteries Part 22: Valve regulated types – Requirements	EN 60896-22	
IEC 60950-1 (mod)	2001	Information technology equipment - Safety Part 1: General requirements	EN 60950-1	2001
IEC 61430	1997	Secondary cells and batteries - Test methods for checking the performance of devices designed for reducing explosion hazards - Lead-acid starter batteries	-	-
ISO 1043-1	2001	Plastics - Symbols and abbreviated terms Part 1: Basic polymers and their special characteristics	-	-

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1) Undated reference.

2) Valid edition at date of issue.



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