INTERNATIONAL STANDARD

IEC 60896-11

First edition 2002-12

Stationary lead-acid batteries -

Part 11: Vented types – General requirements and methods of tests

This **English-language** version is derived from the original **bilingual** publication by leaving out all French-language pages. Missing page numbers correspond to the French-language pages.



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

STATIONARY LEAD-ACID BATTERIES -

Part 11: Vented types – General requirements and methods of tests

FOREWORD

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International Standard IEC 60896-11 has been prepared by IEC technical committee 21: Secondary cells and batteries.

This first edition of IEC 60896-11 cancels and replaces IEC 60896-1 (first edition) published in 1987 and its amendments 1 (1988) and 2 (1990), and constitutes a technical revision.

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

FDIS	Report on voting
21/572/FDIS	21/579/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.

Annex A is for information only.

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This standard constitutes part 11 of the IEC 60896 series, published under the general title *Stationary lead acid batteries*. At the time of the publication of this part, the following parts had already been published or were in the process of being published:

- Part 11: Vented types General requirements and methods of tests (this part)
- Part 21: Valve regulated types Functional characteristics and methods of test 1.

The committee has decided that this publication remains valid until 2008. At this date, in accordance with the committee's decision, the publication will be

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- withdrawn;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

To be published. This standard will replace IEC 60896-2:1995, Stationary lead-acid batteries – General requirements and methods of test – Part 2: Valve regulated types.

STATIONARY LEAD-ACID BATTERIES -

Part 11: Vented types – General requirements and methods of tests

1 Scope and object

This part of IEC 60896 is applicable to lead-acid cells and batteries which are designed for service in fixed locations (i.e. not habitually to be moved from place to place) and which are permanently connected to the load and to the d.c. power supply. Batteries operating in such applications are called "stationary batteries".

Any type or construction of lead-acid battery may be used for stationary battery applications. This part 11 of the standard is applicable to vented types only.

The object of this standard is to specify general requirements and the main characteristics, together with corresponding test methods associated with all types and construction modes of lead-acid stationary batteries, excluding valve-regulated types.

Recommendations on the use of tests for stationary battery application are given in Table A.1.

Recommendations relating the type of cell or monobloc to the use of tests are given in Table A.2.

Statements and claims of basic performance data by the manufacturer shall correspond to those tests.

The tests may also be used for type qualification.

2 Normative references

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.

IEC 60050(151), International Electrotechnical Vocabulary (IEV) – Part 151: Electrical and magnetic devices

IEC 60051 (all parts), Direct acting indicating analogue electrical measuring instruments and their accessories

IEC 60359, Electrical and electronic measurement equipment – Expression of performance

IEC 60417 (all parts), Graphical symbols for use on equipment

IEC 60485, Digital electronic d.c. voltmeters and d.c. electronic analogue-to-digital converters