

AS 4029.1—1994

IEC 896-1:1987

IEC 896-1/Amd.1:1988

IEC 896-1/Amd.2:1990

Australian Standard[®]

Stationary batteries—Lead-acid

**Part 1: Vented type
(based on and including the full
text of IEC 896-1)**

This Australian Standard was prepared by Committee EL/5, Secondary Batteries. It was approved on behalf of the Council of Standards Australia on 3 August 1994 and published on 5 December 1994.

The following interests are represented on Committee EL/5:

Australian Automobile Association
Australian Automotive Aftermarket Association
Australian Electrical and Electronic Manufacturers Association
Australian Lead Development Association
Australian Chamber of Commerce and Industry
Department of Administrative Services — Australian Construction Services
Department of Defence, Australia
Electricity Supply Association of Australia
Federal Chamber of Automobile Industries, Australia
Institution of Engineers, Australia
Railways of Australia Committee
Telecom Australia

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 93272.

AS 4029.1—1994

Australian Standard[®]

Stationary batteries—Lead-acid

**Part 1: Vented type
(based on and including the full
text of IEC 896-1)**

First published as AS 4029.1—1994.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 9209 5

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/5 on Secondary Batteries.

This Standard is the result of a consensus among Australian and New Zealand representatives on the Joint Committee to produce it as an Australian Standard.

Apart from the exceptions described below, this Standard is based on and has been reproduced from IEC 896-1, *Stationary lead-acid batteries. General requirements and methods of test*, Part 1: *Vented types* (1987), Amendment No. 1 to IEC 896-1 (1988), and Amendment No. 2 to IEC 896-1 (1990). Amendments Nos 1 and 2 are bound at the end of this Standard. The text affected by an Amendment is marked in the source document with double margin bars.

It is Part 1 of a three-part Standard, Parts 2 and 3 of which are —

- (a) AS 4029.2, *Stationary batteries—Lead-acid*
Part 2: *Valve-regulated sealed type*; and
- (b) AS 4029.3, *Stationary batteries—Lead-acid*
Part 3: *Pure lead positive pasted plate type*.

For the purposes of this Australian Standard, the IEC text is modified as follows:

- (a) The IEC text is amended, supplemented or replaced as set out in Appendix ZZ. The changes are indicated by a marginal bar against each clause, table or figure affected by a reference to Appendix ZZ.
- (b) New Clause 10A, Life on overcharge, and new Clause 17A, Life on overcharge test, have been added to this Standard. Both appear in Appendix ZZ.
- (c) References to other publications are replaced by references to Australian Standards as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
IEC		AS	
50	International Electrotechnical Vocabulary	1852	International Electrotechnical Vocabulary
50.151	Chapter 151: Electrical and magnetic devices	1852.151	Electric and magnetic devices
51	Direct acting indicating analogue electrical measuring instruments and their accessories	1042	Direct-acting indicating electrical measuring instruments and their accessories
359	Expression of the performance of electrical and electronic measuring equipment	—	
417	Graphical symbols for use on equipment. Index, survey and compilation of the single sheets	1104	Informative symbols for use on electrical and electronic equipment
485	Digital electronic d.c. voltmeters and d.c. electronic analogue-to-digital converters	—	

iii

The following Australian documents are referred to in this Standard:

AS

- 1216 Classification, hazard identification and information systems for dangerous goods
- 1216.1 Part 1: Classification and class labels for dangerous goods
- 2149 Starter batteries—Lead-acid
- 2668 Water for use in secondary batteries
- 2669 Sulphuric acid for use in lead-acid batteries
- 2676 Guide to the installation, maintenance, testing and replacement of secondary batteries in buildings
- 2676.1 Part 1: Vented cells
- 2700 Colour standards for general purposes
- 3011 Electrical installations—Secondary batteries installed in buildings
- 3011.1 Part 1: Vented cells
- 4086 Secondary batteries for use with stand-alone power systems
- 4086.1 Part 1: General requirements

© Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-