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AS 2676.1—1990

Australian Standard®

Guide to the installation, maintenance, testing and replacement of secondary batteries in or on buildings

Part 1: Vented cells

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The following interests are represented on Committee EL/5:

Australian Automobile Association
Australian Automotive Aftermarket Association
Australian Electrical and Electronic Manufacturers Association
Australian Federation of Consumer Organizations
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Guide to the installation, maintenance, testing and replacement of secondary batteries in or on buildings

Part 1: Vented cells

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PREFACE

This Standard was prepared by the Standards Australia Committee on Secondary Batteries, to partially supersede AS 2676—1983, *Installation and maintenance of batteries in buildings.*

The superseded Standard AS 2676—1983 is to be replaced by the following Standards:

(a) AS 3011.1, *Electrical installations—Secondary batteries installed in buildings*, Part 1: *Vented cells,* which is a statement of minimum requirements and is intended to be suitable for reference in government regulations.

(b) This Standard i.e. AS 2676.1—1990.

(c) A proposed AS 3011.2 to cover sealed cells.

(d) A proposed AS 2676.2 to cover sealed cells.

Over the last few years both the ampere-hour capacity and voltage of battery installations have increased to the point where some voltages now border on the medium and high voltage ranges. Even in extra-low voltage installations, short-circuits can cause fire and explosion because of the low internal resistance of batteries.

Tests have shown that batteries of 30 V and above are capable of producing levels of fault current that are difficult to interrupt, and that additional precautions need to be taken to reduce the possibility of accidental short-circuits.

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