

AS 2676.1—1992

Australian Standard[®]

**Guide to the installation,
maintenance, testing and
replacement of secondary
batteries in building**

Part 1: Vented cells

This Australian Standard was prepared by Committee EL/5, Secondary Batteries. It was approved on behalf of the Council of Standards Australia on 23 December 1991 and published on 16 March 1992.

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 Organisations
Australian Lead Development Association
Confederation of Australian Industry
Department of Defence
Electricity Supply Association of Australia
Federal Chamber of Automotive Industries
Institution of Engineers, Australia
Railways of Australia Committee
Telecom Australia

Additional interest participating in preparation of Standard:

Civil Aviation Authority

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PREFACE

This Standard was prepared by the Standards Australia Committee on Secondary Batteries to supersede AS 2676.1–1990.

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.

In preparing this Standard, the Committee considered the requirements of both vented lead–acid cells and vented alkaline cells.

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