



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

Part 2: Sealed cells



AS 2676.2:2020

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- Australasian Fire and Emergency Service Authorities Council
- Australian Industry Group
- Clean Energy Council
- Communications, Electrical and Plumbing Union — Electrical Division
- Consumers Federation of Australia
- CSIRO
- Electrical Compliance Testing Association of Australia
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- Energy Networks Australia
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Guide to the installation, maintenance, testing and replacement of secondary batteries in buildings

Part 2: Sealed cells

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Preface

This Standard was prepared by the Standards Australia Committee EL-005, Secondary batteries to supersede AS 2676.2—1992, *Guide to the installation, maintenance, testing and replacement of secondary batteries in building, Part 2: Sealed cells*.

The objective of this Standard is to set out minimum requirements and provide guidance for the installation, maintenance, testing and replacement of sealed secondary batteries (either valve-regulated or gastight) permanently installed in buildings, structures or premises.

It also provides guidance to determine when batteries should be replaced.

This Standard covers secondary batteries with a nominal voltage of 24 V or greater, and a capacity exceeding 10 A.h at the 1 h rate. It includes batteries comprising sealed lead-acid cells and alkaline cells (such as nickel-cadmium cells).

This Standard covers requirements for components of the d.c. system of which the battery is a part, where these components comprise an essential part of the d.c. system.

This Standard covers sealed cells only. The installation and maintenance of vented cells are covered by AS 3011.1 and AS 2676.1.

The major changes in this edition are as follows:

- (a) Scope aligned to complement AS/NZS 5139.
- (b) Important requirements established in text.
- (c) Battery terminal connection requirements aligned with AS 3011.2.
- (d) Battery protection requirements aligned with AS 3011.2.
- (e) Layout, location and ventilation requirements aligned with AS 3011.2.
- (f) Cell voltage test added to commissioning checks.
- (g) Requirement for safety signs for open flames and smoking removed.
- (h) Requirement for undefined emergency related signs removed.

The terms “normative” and “informative” are used in Standards to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.

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