

Australian Standard™

Traction batteries—Lead-acid

**Part 2.2: Valve-regulated cells—
Installation and usage**

This Australian Standard was prepared by Committee EL-005, Secondary Batteries. It was approved on behalf of the Council of Standards Australia on 26 November 2004.
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The following are represented on Committee EL-005:

Australian Automobile Association
Australian Automotive Aftermarket Association
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Energy Supply Association of Australia
Engineers Australia

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PREFACE

This Standard was prepared by the Standards Australia Committee EL-005 on Secondary Batteries.

AS 2402—1994 has been split into four parts as follows:

Traction batteries—Lead-acid, Part 1.1 Vented cells—Requirements

Traction batteries—Lead-acid, Part 1.2 Vented cells—Installation and usage

Traction batteries—Lead-acid, Part 2.1 Valve-regulated cells—Requirements

Traction batteries—Lead-acid, Part 2.2 Valve-regulated cells— Installation and usage

It is intended that Parts 1.2 and 2.2 will replace the relevant requirements in AS 2359, *Powered industrial trucks*.

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STANDARDS AUSTRALIA

Australian Standard
Traction batteries—Lead-acid

Part 2.2: Valve-regulated cells—Installation and usage

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for the installation and usage of lead-acid batteries of the valve-regulated type intended for installation in electric traction vehicles, industrial trucks, mechanical handling equipment, semi-traction applications (e.g. golf buggies and wheelchairs) and other applications where deep cycling is required.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

AS

- | | |
|----------|---|
| 1482 | Electrical equipment for explosive atmospheres—Protection by ventilation—
Type of protection ‘v’ |
| 2359 | Powered industrial trucks |
| 2359.1 | Part 1: General requirements |
| 2359.2 | Part 2: Operation |
| 2402 | Traction batteries—Lead-acid |
| 2402.2.1 | Part 2.1: Valve-regulated cells—Requirements |

AS/NZS

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|--------|---|
| 1337 | Eye protectors for industrial applications |
| 2210 | Occupational protective footwear |
| 2210.4 | Part 4: Specification for protective footwear |

IEC

- | | |
|-------|--|
| 61044 | Opportunity-charging of lead-acid traction batteries |
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1.3 DEFINITIONS

For the purpose of this Standard, the following definitions apply.

1.3.1 Actual capacity

The quantity of electricity, usually expressed in ampere hours (A.h), that a fully charged battery can deliver for a specific set of operating conditions, including discharge rate, temperature, initial state of charge, age and final voltage.

1.3.2 Authorized person

The person in charge of the premises, or other person appointed or selected by the person in charge of the premises, to perform certain duties associated with the traction batteries on the premises.