AS 2402.1.2—2005

Australian Standard™

Traction batteries—Lead-acid

Part 1.2: Vented cells—Installation and usage

STANDARDS AUSTRALIA

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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Traction batteries—Lead-acid

Part 1.2: Vented 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 vented type intended for installation in electric traction vehicles, industrial trucks, mechanical handling equipment, diesel locomotive starting applications, 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
2402.1.1 Part 1.1 Vented cells—Requirements
2402.2.1 Part 2.1 Valve-regulated cells—Requirements

2548 Battery chargers for lead-acid traction batteries
2548.1 Part 1: Battery chargers for vented cells

AS/NZS
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

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.

