

Australian Standard™

**Traction batteries—Lead acid**

**Part 1.2: Vented 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  
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**Traction batteries—Lead acid**

**Part 1.2: Vented cells—installation and usage**

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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 3595 *Powered industrial trucks*.

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## STANDARDS AUSTRALIA

**Australian Standard**  
**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.