AS ISO 6469.1:2014
ISO 6469-1:2009

AS ISO 6469.1:2014

Australian STANDARD

Electrically propelled road vehicles—Safety specifications

Part 1: On-board rechargeable energy storage system (RESS)

STANDARDS Australia

This Australian Standard® was prepared by Committee EM-001, Electric Vehicle Operation. It was approved on behalf of the Council of Standards Australia on 4 June 2014.
This Standard was published on 30 June 2014.

The following are represented on Committee EM-001:

- Australasian Road Rescue Organisation
- Australian Automobile Association
- Australian Electric Vehicle Association
- Australian Industry Group
- Auto Skills Australia
- ChargePoint
- Consumers Federation of Australia
- Curtin University of Technology
- Department of Resources, Energy and Tourism
- Electrical Regulatory Authorities Council
- Energy Networks Association
- Federal Chamber of Automotive Industries
- Motor Trades Association of Australia
- National Association of Testing Authorities Australia
- Transport for NSW
- Tritium
- Victorian Automobile Chamber of Commerce

This Standard was issued in draft form for comment as DR 102417.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Part 1: On-board rechargeable energy storage system (RESS)

First published as AS ISO 6469.1:2014.

Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 74342 776 7

PREFACE

This Standard was prepared by the Standards Australia Committee EM-001, Electric Vehicle Operation.

The objective of this Standard is to specify requirements for the on-board rechargeable energy storage systems (RESS) of electrically propelled road vehicles, including battery-electric vehicles (BEVs), fuel-cell vehicles (FCVs) and hybrid electric vehicles (HEVs), for the protection of persons inside and outside the vehicle and the vehicle environment. Flywheels are not included in the scope of this Standard.

This Standard is identical with, and has been reproduced from, ISO 6469-1:2009, *Electrically propelled road vehicles—Safety specifications,* Part 1: *On-board rechargeable energy storage system (RESS).*

As this Standard is reproduced from an International Standard, the following applies:

(a) In the source text, 'this part of ISO 6469' should read 'this Australian Standard'.

(b) A full point substitutes for a comma when referring to a decimal marker.

None of the normative references in the source document have been adopted as Australian or Australian/New Zealand Standards.

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AUSTRALIAN STANDARD

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Part 1:
On-board rechargeable energy storage system (RESS)

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1 Scope

This part of ISO 6469 specifies requirements for the on-board rechargeable energy storage systems (RESS) of electrically propelled road vehicles, including battery-electric vehicles (BEVs), fuel-cell vehicles (FCVs) and hybrid electric vehicles (HEVs), for the protection of persons inside and outside the vehicle and the vehicle environment. Flywheels are not included in the scope of this part of ISO 6469.

This part of ISO 6469 does not apply to RESS in motorcycles and vehicles not primarily intended as road vehicles, such as material handling trucks or fork-lift trucks.

This part of ISO 6469 applies only to RESS in on-board voltage class B (see 3.18) electric circuits for vehicle propulsion.

This part of ISO 6469 does not provide comprehensive safety information for manufacturing, maintenance and repair personnel.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6469-3, *Electric road vehicles — Safety specifications — Part 3: Protection of persons against electric shock*

ISO 7010, *Graphical symbols — Safety colours and safety signs — Safety signs used in workplaces and public areas*

ISO 20653, *Road vehicles — Degrees of protection (IP-Code) — Protection of electrical equipment against foreign objects, water and access*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

