



**Electrically propelled road vehicles—
Safety specifications**

**Part 2: Vehicle operational safety
means and protection against failures**

STANDARDS
Australia



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 - Australian Electric Vehicle Association
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Australian Standard[®]

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PREFACE

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

The objective of this Standard is to specify the requirements for operational safety means and protection against failures related to hazards specific to 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.

This Standard is identical with, and has been reproduced from ISO 6469-2:2009, *Electrically propelled road vehicles—Safety specifications, Part 2: Vehicle operational safety means and protection against failures*.

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

Electrically propelled road vehicles—Safety specifications**Part 2:****Vehicle operational safety means and protection against failures****1 Scope**

This part of ISO 6469 specifies requirements for operational safety means and protection against failures related to hazards specific to 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.

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

Requirements related to internal combustion engine (ICE) systems of HEVs are not covered in this part of ISO 6469.

This part of ISO 6469 applies only if the maximum working voltage of the on-board electrical propulsion system is lower than the upper voltage class B limit (see 3.11).

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 11451 (all parts), *Road vehicles – Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy*

3 Terms and definitions

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

3.1**auxiliary electric system**

on-board vehicle system, other than for vehicle propulsion, which operates on electric energy

3.2**battery electric vehicle****BEV**

electric vehicle with only a **traction battery** as the power source for vehicle propulsion

NOTE The abbreviation BEV is often shortened to EV.