
**Electrically propelled road vehicles —
Safety specifications —**

**Part 2:
Vehicle operational safety**

*Véhicules routiers électriques — Spécifications de sécurité —
Partie 2: Sécurité fonctionnelle du véhicule*



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Published in Switzerland

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 37, *Electrically propelled vehicles*.

This fourth edition cancels and replaces the third edition (ISO 6469-2:2018), which has been technically revised.

The main changes are as follows:

- introduction of requirements for an external sound generation system;
- introduction of requirements for the operation of auxiliary electric systems;
- addition of an informative annex on standardized symbols for driver information.

A list of all parts in the ISO 6469 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document is the second part of the ISO 6469 series that provide safety specifications for electrically propelled road vehicles.

Electrically propelled road vehicles have different functions and characteristics compared to conventional vehicles.

This document addresses such characteristics with regard to the operational safety of electrically propelled road vehicles.

Electrically propelled road vehicles — Safety specifications —

Part 2: Vehicle operational safety

1 Scope

This document specifies requirements for operational safety specific to electrically propelled road vehicles, for the protection of persons inside and outside the vehicle.

Relevant requirements for motorcycles and mopeds are outside the scope of this document, they are described in the ISO 13063 series.

This document does not provide comprehensive safety information for manufacturing, maintenance, and repair personnel.

This document does not consider specific aspects of driving automation features.

NOTE 1 For the definition of the term “driving automation features”, see SAE J3016.

EMC is not covered by this document.

NOTE 2 For EMC see ISO 11451 and IEC 61851-21-1.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

auxiliary electric system

vehicle system, other than for vehicle propulsion, that operates on electric energy

[SOURCE: ISO 6469-3:2021, 3.1]

3.2

case A

connection of an *electrically-propelled vehicle (EV)* (3.6) to the supply network with a plug and cable permanently attached to the EV

[SOURCE: IEC 61851-1:2017, 3.1.10]