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

Part 4:
Post crash electrical safety

*Véhicules routiers électriques — Spécifications de sécurité —
Partie 4: Exigences de sécurité électrique après accident*



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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).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 22, *Road vehicles*, Subcommittee SC 21, *Electrically propelled road vehicles*.

ISO 6469 consists of the following parts, under the general title *Electrically propelled road vehicles — Safety specifications*:

- *Part 1: On-board rechargeable energy storage system (RESS)*
- *Part 2: Vehicle operational safety means and protection against failures*
- *Part 3: Protection of persons against electric shock*
- *Part 4: Post crash electrical safety*

Electrically propelled road vehicles — Safety specifications —

Part 4: Post crash electrical safety

1 Scope

This part of ISO 6469 specifies safety requirements for the electric propulsion systems and conductively connected auxiliary electric systems of electrically propelled road vehicles for the protection of persons inside and outside the vehicle. It specifies electrical safety requirements for vehicle post-crash conditions.

It applies to electrically propelled road vehicles with voltage class B electric circuits.

It does not apply to motorcycles and mopeds.

It does not specify any crash test procedure. The safety requirements of this part of ISO 6469 apply to applicable vehicles in accordance with published crash test procedures of each country or region. Applicable vehicles are those vehicles which are explicitly specified in these crash test procedures.

It does not provide comprehensive safety information for first responders, emergency services, maintenance, and repair personnel.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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, *Electrically propelled road vehicles — Safety specifications — Part 3: Protection of persons against electric shock*

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

ISO/TR 8713, *Electrically propelled road vehicles — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/TR 8713 and the following apply.

3.1

auxiliary electric system

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

3.2

barrier

part providing protection against direct contact from any usual direction of access

3.3

conductive part

part capable of conducting electric current