



INTERNATIONAL STANDARD

**Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles -
Part 3: Dimensional compatibility requirements for DC and AC/DC pin and contact-tube vehicle couplers**



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**Plugs, socket-outlets, vehicle connectors and vehicle inlets -
Conductive charging of electric vehicles -
Part 3: Dimensional compatibility requirements
for DC and AC/DC pin and contact-tube vehicle couplers**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 62196-3 has been prepared by IEC subcommittee 23H: Plugs, socket-outlets, and couplers for industrial and similar applications, and for electric vehicles, of IEC technical committee 23: Electrical accessories. It is an International Standard.

This third edition cancels and replaces the second edition published in 2022. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) The content of IEC TS 62196-3-1 has been integrated into this document as normative Annex AA.
- b) increased ratings for all configurations;

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The text of this International Standard is based on the following documents:

Draft	Report on voting
23H/588/FDIS	23H/595/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

This document is to be read in conjunction with IEC 62196-1:2025. The clauses of the particular requirements in this document supplement or modify the corresponding clauses in IEC 62196-1:2025. Where the text indicates an "addition" to or a "replacement" of the relevant requirement, test specification or explanation of IEC 62196-1:2025, these changes are made to the relevant text of IEC 62196-1:2025, which then becomes part of this document. Where no change is necessary, the words "IEC 62196-1:2025, Clause X, applies" are used. Additional annexes are numbered Annex AA, Annex BB, etc. Subclauses, figures, tables, or notes which are additional to those in IEC 62196-1:2025 are numbered starting from 301.

Annex AA follows the numbering of IEC 62196-1:2025 and of this document. Additional figures and tables to this document in Annex AA are numbered starting from AA.100.

In this document, the following print types are used:

- requirements proper: in roman type;
- *test specifications: in italic type;*
- notes: in smaller roman type.

A list of all the parts in the IEC 62196 series, published under the general title *Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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The IEC 61851 series specifies requirements for electric vehicle (EV) conductive supply equipment.

The IEC 62196 series specifies the requirements for plugs, socket-outlets, vehicle connectors, vehicle inlets and cable assemblies as described in the IEC 61851 series and in IEC 62752.

Charging using off-board DC charging equipment can be achieved by the direct connection of an electric vehicle to DC EV supply equipment incorporating control and communication circuits.

To support the connection of DC power for such vehicles, this document provides the standard interface configurations of DC vehicle couplers and accessories to be used in conductive charging of electric vehicles, taking the most frequent charging situations into consideration.

The IEC 62196 series consists of the following parts:

- IEC 62196-1: General requirements, comprising clauses of a general character;
- IEC 62196-2: Dimensional compatibility requirements for AC pin and contact-tube accessories;
- IEC 62196-3: Dimensional compatibility requirements for DC and AC/DC pin and contact-tube vehicle couplers;
- IEC TS 62196-4: Dimensional compatibility and interchangeability requirements for DC pin and contact-tube accessories for class II or class III applications;
- IEC 62196-6: Dimensional compatibility requirements for DC pin and contact-tube vehicle couplers intended to be used for DC EV supply equipment where protection relies on electrical separation.
- IEC TS 62196-7: Vehicle adapter

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This part of IEC 62196 is applicable to vehicle couplers with pins and contact tubes of standardized configuration, herein also referred to as "accessories", intended for use in electric vehicle conductive charging systems which incorporate control means, with rated operating voltage and current in accordance with IEC 62196-1:2025.

This document applies to high power DC interfaces and combined AC/DC interfaces of vehicle couplers that are intended for use in conductive charging systems for circuits specified in IEC 61851-1 and IEC 61851-23.

This document applies to accessories and cable assemblies that employ

- thermal sensing, or
- thermal transport and thermal sensing with the system architecture described in AA.4.301.

The DC vehicle connectors and vehicle inlets covered by this document are used only in charging mode 4, case C, as shown in IEC 61851-1.

These vehicle couplers are intended to be used for circuits specified in IEC 61851-23 which operate at different voltages, and which can include ELV and communication signals.

This document applies to the vehicle couplers to be used in an ambient temperature between -30 °C and $+40\text{ °C}$.

NOTE 1 In some countries, other requirements can apply.

NOTE 2 In the following country, -40 °C applies: SE.

These vehicle couplers are intended to be connected only to cables with copper or copper-alloy conductors.

These accessories are intended to be connected to cables according to the IEC 62893 series for DC cables.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 60364-5-54:2011, *Low-voltage electrical installations - Part 5-54: Selection and erection of electrical equipment - Earthing arrangements and protective conductors*

IEC 60811-501, *Electric and optical fibre cables - Test methods for non-metallic materials - Part 501: Mechanical tests - Tests for determining the mechanical properties of insulating and sheathing compounds*

IEC 61851-23:2023, *Electric vehicle conductive charging system - part 23: DC electric vehicle supply equipment*

IEC 62196-1:2025, *Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements*

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charging of electric vehicles - Part 2: Dimensional compatibility requirements for AC pin and contact-tube accessories

IEC 62893-4-1, Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV - Part 4-1: Cables for DC charging according to mode 4 of IEC 61851-1 - DC charging without use of a thermal management system

ISO 2719, Determination of flash point - Pensky-Martens closed cup method

ISO 4521, Metallic and other inorganic coatings - Electrodeposited silver and silver alloy coatings for engineering purposes - Specification and test methods

ISO 5474-3:2024, Electrically propelled road vehicles - Functional and safety requirements for power transfer between vehicle and external electric circuit - Part 3: DC power transfer

ISO 25178-1, Geometrical product specifications (GPS) - Surface texture: Areal - Part 1: Indication of surface texture

Globally Harmonized System of Classification and Labelling of Chemicals (GHS), tenth edition, United Nations, 2023

OECD Guidelines for the Testing of Chemicals, Section 3, Test No. 301: Ready Biodegradability, 17 July 1992

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IEC 60216-1, *Electrical insulating materials - Thermal endurance properties - Part 1: Ageing procedures and evaluation of test results*

IEC 61851 (all parts), *Electric vehicle conductive charging system*

IEC 61851-1:2017, *Electric vehicle conductive charging system - Part 1: General requirements*

IEC 61851-23, *Electric vehicle conductive charging system - Part 23: DC electric vehicle supply equipment²*

IEC 61851-24, *Electric vehicle conductive charging system - Part 24: Digital communication between a DC EV supply equipment and an electric vehicle for control of DC charging*

IEC TS 61851-26, *Electric vehicle conductive charging system - Part 26: EV supply equipment with automatic docking of a vehicle coupler located at the underbody of an electric vehicle*

IEC TS 61851-27, *Electric vehicle conductive charging system - Part 27: EV supply equipment with automated docking of a vehicle coupler according to IEC 62196-2, IEC 62196-3 or IEC TS 62196-3-1*

IEC TS 62196-3-1, *Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 3-1: Vehicle connector, vehicle inlet and cable assembly for DC charging intended to be used with a thermal management system*

IEC 62893 (all parts), *Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV*

IEC TS 62893-4-2, *Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV - Part 4-2: Cables for DC charging according to mode 4 of IEC 61851-1 - Cables intended to be used with a thermal management system*

ISO 2768-1, *General tolerances - Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 5474 (all parts), *Electrically propelled road vehicles - Functional and safety requirements for power transfer between vehicle and external electric circuit*

ISO 19642-5:2019, *Road vehicles - Automotive cables - Part 5: Dimensions and requirements for 600 V a.c. or 900 V d.c. and 1 000 V a.c. or 1 500 V d.c. single core copper conductor cables*

ISO 20457, *Plastics moulded parts - Tolerances and acceptance conditions*

² Third edition under preparation. Stage at the time of publication: IEC/CD 61851-23:2025.