SLOVENSKI STANDARD
SIST EN IEC 62196-1:2026

01-julij-2026

Vtiči, vtičnice, konektorji in uvodnice na vozilih - Kabelsko napajanje električnih vozil - 1. del: Splošne zahteve (IEC 62196-1:2025)

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

Stecker, Steckdosen, Fahrzeugkupplungen und Fahrzeugstecker - Konduktives Laden von Elektrofahrzeugen – Teil 1: Allgemeine Anforderungen (IEC 62196-1:2025)

Fiches, socles de prise de courant, prises mobiles de véhicule et socles de connecteurs de véhicule - Charge conductive des véhicules électriques - Partie 1: Exigences générales (IEC 62196-1:2025)

Ta slovenski standard je istoveten z: **EN IEC 62196-1:2026**

ICS:

29.120.30	Vtiči, vtičnice, spojke	Plugs, socket-outlets, couplers
43.120	Električna cestna vozila	Electric road vehicles

SIST EN IEC 62196-1:2026 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 62196-1

January 2026

ICS 29.120.30; 43.120

Supersedes EN IEC 62196-1:2022

English Version

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

Fiches, socles de prise de courant, prises mobiles de véhicule et socles de connecteurs de véhicule - Charge conductive des véhicules électriques - Partie 1: Exigences générales
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(IEC 62196-1:2025)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN IEC 62196-1:2026 E

European foreword

The text of document 23H/579/FDIS, future edition 5 of IEC 62196-1, prepared by SC 23H "Plugs, Socket-outlets and Couplers for industrial and similar applications, and for Electric Vehicles" of IEC/TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62196-1:2026.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2027-01-31
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2029-01-31

This document supersedes EN IEC 62196-1:2022 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a standardization request addressed to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

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Endorsement notice

The text of the International Standard IEC 62196-1:2025 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60068-2-75:2014	NOTE	Approved as EN 60068-2-75:2014 (not modified)
IEC 60309-1:2021	NOTE	Approved as EN IEC 60309-1:2022 (not modified)
IEC 60309-2	NOTE	Approved as EN IEC 60309-2
IEC 60512-2-2	NOTE	Approved as EN 60512-2-2
IEC 60947-1:2020	NOTE	Approved as EN IEC 60947-1:2021 (not modified)
IEC 60947-7-4	NOTE	Approved as EN IEC 60947-7-4
IEC 60999-1:1999	NOTE	Approved as EN 60999-1:2000 (not modified)
IEC 60999-2:2003	NOTE	Approved as EN 60999-2:2003 (not modified)
IEC 61008-1	NOTE	Approved as EN 61008-1
IEC 61009-1	NOTE	Approved as EN 61009-1
IEC 61140	NOTE	Approved as EN 61140

IEC 61300-2-4	NOTE	Approved as EN IEC 61300-2-4
IEC 61300-2-6	NOTE	Approved as EN IEC 61300-2-6
IEC 61300-2-7	NOTE	Approved as EN 61300-2-7
IEC 61439-1:2020	NOTE	Approved as EN IEC 61439-1:2021 (not modified)
IEC 61540	NOTE	Approved as HD 639 S1
IEC 61851 (series)	NOTE	Approved as EN IEC 61851 (series)
IEC 61851-1	NOTE	Approved as EN IEC 61851-1
IEC 62196-2:2022	NOTE	Approved as EN IEC 62196-2:2022 (not modified)
IEC 62196-3:2022	NOTE	Approved as EN IEC 62196-3:2022 (not modified)
ISO 1456	NOTE	Approved as EN ISO 1456
ISO 2081	NOTE	Approved as EN ISO 2081
ISO 2768-1	NOTE	Approved as EN 22768-1

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60068-2-14	-	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN IEC 60068-2-14	-
IEC 60068-2-20	-	Environmental testing - Part 2-20: Tests - Test Ta and Tb: Test methods for solderability and resistance to soldering heat of devices with leads	EN IEC 60068-2-20	-
IEC 60068-2-30	-	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN IEC 60068-2-30	-
IEC 60112	-	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN IEC 60112	-
IEC 60227	series	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V -- Part 1: General requirements	-	-
IEC 60228	2023	Conductors of insulated cables	EN IEC 60228	2024
IEC 60245-4	-	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 4: Cords and flexible cables	-	-
IEC 60269-1	-	Low-voltage fuses - Part 1: General requirements	EN IEC 60269-1	-
IEC 60269-2	-	Low-voltage fuses - Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Examples of standardized systems of fuses A to K	HD 60269-2	-
IEC 60309-4	2021	Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes - Part 4: Switched socket-outlets with or without interlock	EN IEC 60309-4	2022
IEC 60352-5	-	Solderless connections - Part 5: Press-in connections - General requirements, test methods and practical guidance	EN IEC 60352-5	-

IEC 60417	-	Graphical symbols for use on equipment. Index, survey and compilation of the single sheets.	-	-
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529	1991
-	-		+ corrigendum May	1993
+ A1	1999		+ A1	2000
+ A2	2013		+ A2	2013
IEC 60664-1	2020	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	EN IEC 60664-1	2020
IEC 60664-3	-	Insulation coordination for equipment within low-voltage systems - Part 3: Use of coating, potting or moulding for protection against pollution	EN 60664-3	-
IEC 60695-2-11	-	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end products (GWEPT)	EN IEC 60695-2-11	-
IEC 60695-10-2	-	Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test method	-	-
IEC 60947-3	-	Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units	EN IEC 60947-3	-
IEC 60947-5-1	-	Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices	EN IEC 60947-5-1	-
IEC 61032	1997	Protection of persons and equipment by enclosures - Probes for verification	EN 61032	1998
IEC 61058-1	2016	Switches for appliances - Part 1: General requirements	EN IEC 61058-1	2018
IEC 61851-1	2017	Electric vehicle conductive charging system - Part 1: General requirements	EN IEC 61851-1	2019
IEC 61851-23	2023	Electric vehicle conductive charging system - Part 23: DC electric vehicle supply equipment	-	-
IEC 62196-2	2025	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2: Dimensional compatibility requirements for AC pin and contact-tube accessories	EN IEC 62196-2	2026
IEC 62196-3	—[1]	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	EN IEC 62196-3	—[2]

[1] Under preparation. Stage at the time of publication: IEC/AFDIS 62196-3:2025.

[2] Under preparation. Stage at the time of publication: FprEN IEC 62196-3:2025.

IEC 62752	-	In-cable control and protection device (IC-CPD) for mode 2 charging of electric road vehicles	EN IEC 62752	-
ISO 12103-1	-	Road vehicles - Test contaminants for filter evaluation – Part 1: Arizona test dust	-	-
ISO 4521	2008	Metallic and other inorganic coatings - Electrodeposited silver and silver alloy coatings for engineering purposes - Specification and test methods	EN ISO 4521	2008
ISO 5474	series	Electrically propelled road vehicles - Functional and safety requirements for power transfer between vehicle and external electric circuit	-	-

IEC 62196-1

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INTERNATIONAL STANDARD

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

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CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

FOREWORD

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IEC 62196-1 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 fifth edition cancels and replaces the fourth 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) addition of new tests for latching devices and retaining means;
b) inclusion of type 4 accessories.