SLOVENSKI STANDARD
SIST EN IEC 63066:2026

01-december-2026

Nizkonapetostni priključni konektorji za odstranljive enote za shranjevanje energije (IEC 63066:2026)

Low-voltage docking connectors for removable energy storage units (IEC 63066:2026)

Niederspannungs-Andockstecker für abnehmbare Energiespeicher (IEC 63066:2026)

Connecteurs de raccordement à basse tension pour unités de stockage d'énergie amovibles (IEC 63066:2026)

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ICS:

29.120.30	Vtiči, vtičnice, spojke	Plugs, socket-outlets, couplers

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EN IEC 63066

September 2026

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English Version

Low-voltage docking connectors for removable energy storage units (IEC 63066:2026)

Connecteurs de raccordement à basse tension pour unités de stockage d'énergie amovibles (IEC 63066:2026)

Niederspannungs-Andockstecker für abnehmbare Energiespeicher (IEC 63066:2026)

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European foreword

The text of document 23H/592/FDIS, future edition 1 of IEC 63066, 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 63066:2026.

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) 2027-09-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2029-09-30

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 is read in conjunction with EN IEC 60309-1:2022.

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The text of the International Standard IEC 63066:2026 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 61851-23	NOTE	Approved as EN 61851-23
IEC 62133 (series)	NOTE	Approved as EN 62133-2:2017/A1 (series)
IEC 62196-3:2026	NOTE	Approved as EN IEC 62196-3:2026 (not modified)
ISO 2768 (series)	NOTE	Approved as EN 22768-1 (series)
ISO 14405-1:2025	NOTE	Approved as EN ISO 14405-1:2025 (not modified)

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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.

Clause 2 of EN IEC 60309-1:2022 applies, except as follows:

Publication	Year	Title	EN/HD	Year
IEC 60068-2-2	-	Environmental testing - Part 2-2: Tests - Test B: Dry heat	EN IEC 60068-2-2	-
IEC 60068-2-14	-	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN IEC 60068-2-14	-
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 60068-2-38	-	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	EN IEC 60068-2-38	-
IEC 60068-2-52	-	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	EN IEC 60068-2-52	-
IEC 60068-2-60	-	Environmental testing - Part 2-60: Tests - Test Ke: Flowing mixed gas corrosion test	EN 60068-2-60	-
IEC 60227-3	-	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 3: Non-sheathed cables for fixed wiring	-	-
IEC 60309-1	2021	Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes - Part 1: General requirements	EN IEC 60309-1	2022
IEC 60352	series	Solderless connections - Part 1: Wrapped connections - General requirements, test methods and practical guidance	EN 60352	series
IEC 60364-5-54	2011	Low-voltage electrical installations - Part 5-54: Selection and erection of electrical equipment - Earthing arrangements and protective conductors	HD 60364-5-54	2011
-	-		+ A11	2017

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+ A1	2021			
IEC 60417	-	Graphical symbols for use on equipment. Index, survey and compilation of the single sheets.	-	-
IEC 60512-2-2	-	Connectors for electronic equipment - Tests and measurements - Part 2-2: Electrical continuity and contact resistance tests - Test 2b: Contact resistance - Specified test current method	EN 60512-2-2	-
IEC 61140	2016	Protection against electric shock - Common aspects for installation and equipment	EN 61140	2016
IEC 61373	2010	Railway applications - Rolling stock equipment - Shock and vibration tests	EN 61373	2010
IEC 62619	2022	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications	EN IEC 62619	2022
IEC 62840-2	2025	Electric vehicle battery swap system - Part 2: Safety requirements	EN IEC 62840-2	2025
IEC PAS 62840-3	2021	Electric vehicle battery swap system - Part 3: Particular safety and interoperability requirements for battery swap systems operating with removable RESS/battery systems	-	-
ISO/IEC/TR 29106	2007	Information technology - Generic cabling - Introduction to the MICE environmental classification	-	-
+ A1	2012			
+A2	2019			
ISO 16750-3	2023	Road vehicles - Environmental conditions and testing for electrical and electronic equipment – Part 3: Mechanical loads	-	-
		Copper and copper alloys - Copper rod, bar and wire for general electrical purposes	EN 13601	2021
DIN 43671	1975-12	Stromschienen aus Kupfer; Bemessung für Dauerstrom, only available in German	-	-

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Low-voltage docking connectors for removable energy storage units

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 63066 has been prepared by 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 first edition cancels and replaces the first edition of IEC TS 63066 published in 2017. This edition constitutes a technical revision.

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

a) introduction of standard sheets;
b) alignment with IEC 60309-1:2021;
c) technical improvements, e.g. short circuit tests according the I^2t- methodology.

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

Draft	Report on voting
23H/592/FDIS	23H/615/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.

In this document, the following print types are used:

– requirements proper: in roman type;
– *test specifications: in italic type;*
– explanatory matter: in smaller roman type.

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/publications.

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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

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INTRODUCTION

Pluggable energy storage technology has a perspective of a large demand in certain areas.

With the advent of electric vehicles, which are expected to become one of the most significant types of electric users of electric energy, together with the heating and cooling of buildings, the demand of electric energy from renewable sources rather than from fossil fuels will rapidly increase.

Due to the intrinsic discontinuity of the renewable sources (wind, solar light), energy storage units for renewable energy are becoming a possible solution to cover peak power demands, when in an increasingly decentralized electric power network infrastructure.

Guidance is needed to ensure safe and reliable operation, interoperability, environmental protection and efficiency of energy storage technology, once made available in a connectorized, thus pluggable, form.

This document is intended to meet the industry needs of standardized docking connector interfaces as a means to promote the development of this promising technology and the popularization of pluggable energy storage units.

Compared to other accessories, for the connectors required by this technology several specific aspects are considered:

– the connector mating process cannot have haptic support by the operator to find the correct position between the two parts of the connector;
– the connector mating process can have a mechanical feed which precludes the finding of the correct position between the two parts of the connector.

To overcome these issues, the design of the accessories can consist partly of moveable parts to compensate a mechanical feed and constructional tolerances.

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1 Scope

This document applies to docking connectors (hereinafter referred to as accessories) incorporated in or fixed to electrical equipment, intended to connect energy storage units, either removable or swappable, or both, to a dedicated electric power conversion unit, to an energy consuming unit or to another energy storage unit.

These accessories are intended for DC and can include either a protective earth contact or optional auxiliary contacts for signalling and data transmission, or both. These accessories have a rated current of up to 2 000 A and rated operating voltages not exceeding 1 500 V DC.

This document also applies to accessories intended to be used at extra-low voltage.

The list of preferred ratings is not intended to exclude other ratings.

These accessories are not suitable for mating or unmating under load. These accessories are intended to be installed by instructed persons (IEC 60050-195:2021, 195-04-02) or skilled persons (IEC 60050-195:2021, 195-04-01) only.

This document applies to accessories for use under environmental conditions as described in Clause 31.

These accessories are intended to be connected to current carrying parts in copper or copper alloy only, plated or not plated.

In locations where special conditions prevail, additional requirements can apply.

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NOTE For conditions other than operation, additional requirements can be applicable, for instance, IEC 62133 (all parts) and UN Recommendations on the Transport of Dangerous Goods (2002), section 38.338.3.

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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.

Clause 2 of IEC 60309-1:2021 applies, except as follows:

Additional normative references:

IEC 60068-2-2, *Environmental testing - Part 2-2: Tests - Test B: Dry heat*

IEC 60068-2-14, *Environmental testing - Part 2-14: Tests - Test N: Change of temperature*

IEC 60068-2-30, *Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)*

IEC 60068-2-38, *Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test*

IEC 60068-2-52, *Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)*

IEC 60068-2-60, *Environmental testing - Part 2-60: Tests - Test Ke: Flowing mixed gas corrosion test*

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IEC 60227-3, *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 3: Non-sheathed cables for fixed wiring*

IEC 60309-1:2021, *Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes - Part 1: General requirements*

IEC 60352 (all parts), *Solderless connections*

IEC 60364-5-54:2011, *Low-voltage electrical installations - Part 5-54: Selection and erection of electrical equipment - Earthing arrangements and protective conductors*
IEC 60364-5-54:2011/AMD1:2021

IEC 60417, *Graphical symbols for use on equipment*, available at http://www.graphical-symbols.info/equipment

IEC 60512-2-2, *Connectors for electronic equipment – Tests and measurements – Part 2-2: Electrical continuity and contact resistance tests – Test 2b: Contact resistance – Specified test current method*

IEC 61140:2016, *Protection against electric shock - Common aspects for installation and equipment*

IEC 61373:2010, *Railway applications - Rolling stock equipment - Shock and vibration tests*

IEC 62619:2022, *Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries, for use in industrial applications*

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IEC 62840-2:2025, *Electric vehicle battery swap system – Part 2: Safety* requirements

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IEC PAS 62840-3:2021, *Electric vehicle battery swap system - Part 3: Particular safety and interoperability requirements for battery swap systems operating with removable RESS/battery systems*

ISO/IEC TR 29106:2007, *Information technology - Generic cabling - Introduction to the MICE environmental classification*
ISO/IEC TR 29106:2007/AMD1:2012
ISO/IEC TR 29106:2007/AMD2:2019

ISO 16750-3:2023, *Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 3: Mechanical loads*

EN 13601:2021, *Copper and copper alloys - Copper rod, bar and wire for general electrical purposes*

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