



SLOVENSKI STANDARD
SIST EN 62852:2015/A1:2020

01-julij-2020

Konektorji za enosmerne aplikacije v fotonapetostnih sistemih - Varnostne zahteve in preskusi - Dopolnilo A1

Connectors for DC-application in photovoltaic systems - Safety requirements and tests

Steckverbinder für Gleichspannungsanwendungen in Photovoltaik-Systemen - Sicherheitsanforderungen und Prüfungen

Connecteurs pour applications en courant continu pour systèmes photovoltaïques - Exigences de sécurité et essais

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Ta slovenski standard je istoveten z: EN 62852:2015/A1:2020

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ICS:

27.160	Sončna energija	Solar energy engineering
31.220.10	Vtiči in vtičnice, konektorji	Plug-and-socket devices. Connectors

SIST EN 62852:2015/A1:2020

en

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EUROPEAN STANDARD

EN 62852:2015/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2020

ICS 27.160

English Version

Connectors for DC-application in photovoltaic systems - Safety requirements and tests (IEC 62852:2014/A1:2020)

Connecteurs pour applications en courant continu pour systèmes photovoltaïques - Exigences de sécurité et essais
(IEC 62852:2014/A1:2020)

Steckverbinder für Gleichspannungsanwendungen in Photovoltaik-Systemen - Sicherheitsanforderungen und Prüfungen
(IEC 62852:2014/A1:2020)

This amendment A1 modifies the European Standard EN 62852:2015; it was approved by CENELEC on 2020-04-29. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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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

EN 62852:2015/A1:2020 (E)**European foreword**

The text of document 82/1646/FDIS, future IEC 62852/A1, prepared by IEC/TC 82 "Solar photovoltaic energy systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62852:2015/A1:2020.

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) 2021-01-29
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-04-29

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.

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Endorsement notice
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The text of the International Standard IEC 62852:2014/A1:2020 was approved by CENELEC as a European Standard without any modification.

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.cenelec.eu.

Delete all year dates.

Add the following references:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60112	-	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	-	-
IEC 60216-1	-	Electrical insulating materials - Thermal endurance properties - Part 1: Ageing procedures and evaluation of test results	EN 60216-1	-
IEC 60216-5	-	Electrical insulating materials - Thermal endurance properties - Part 5: Determination of relative temperature index (RTI) of an insulating material	-	-
IEC/TR 60664-2-1	-	Insulation coordination for equipment within low-voltage systems - Part 2-1: Application guide - Explanation of the application of the IEC 60664 series, dimensioning examples and dielectric testing	-	-
IEC 62930	-	Electric cables for photovoltaic systems with a voltage rating of 1,5 kV DC	-	-
ISO 868	-	Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness)	EN ISO 868	-

EN 62852:2015/A1:2020 (E)*Replace:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61215	2005	Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval	-	-

by:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61215-2	-	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 2: Test procedures	-	-

Replace:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC/TS 62548	-	Photovoltaic (PV) arrays - Design requirements	-	-

by:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62548	-	Photovoltaic (PV) arrays - Design requirements	-	-

[SIST EN 62852:2015/A1:2020](https://standards.iteh.ai/catalog/standards/sist/6a96619f-261d-4bd4-8562-4a074360b61f/sist-en-62852-2015-a1-2020)
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IEC 62852

Edition 1.0 2020-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

**Connectors for DC-application in photovoltaic systems – Safety requirements
and tests**

(standards.iteh.ai)

**Connecteurs pour applications en courant continu pour systèmes
photovoltaïques – Exigences de sécurité et essais**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 27.160

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FOREWORD

This amendment has been prepared by IEC technical committee 82: Solar photovoltaic energy systems.

The text of this amendment is based on the following documents:

FDIS	Report on voting
82/1646/FDIS	82/1667/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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1 Scope

Add the following new sentence after the last paragraph:

This document does not apply to connectors for data collection, tracker controls or similar, but it may be used as a guide for those connectors.

2 Normative references

Delete all year dates.

Add the following new references:

IEC 60112, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*

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

IEC 60216-5, *Electrical insulating materials – Thermal endurance properties – Part 5: Determination of relative thermal endurance index (RTE) of an insulating material*

IEC 62852:2014/AMD1:2020
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– 3 –

IEC TR 60664-2-1, *Insulation coordination for equipment within low-voltage systems – Part 2-1: Application guide – Explanation of the application of the IEC 60664 series, dimensioning examples and dielectric testing*

IEC 62930, *Electric cables for photovoltaic systems with a voltage rating of 1,5 kV DC*

ISO 868, *Plastics and ebonite – Determination of indentation hardness by means of a durometer (Shore hardness)*

Replace:

IEC 61215:2005, *Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval*

by:

IEC 61215-2, *Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures*

Replace:

IEC TS 62548, *Photovoltaic (PV) arrays – Design requirements*

by:

IEC 62548, *Photovoltaic (PV) arrays – Design requirements*

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3 Terms and definitions

[SIST EN 62852:2015/A1:2020](https://standards.iteh.ai/catalog/standards/sist/6a96619f-261d-4bd4-8562-4a074360b61f/sist-en-62852-2015-a1-2020)

<https://standards.iteh.ai/catalog/standards/sist/6a96619f-261d-4bd4-8562-4a074360b61f/sist-en-62852-2015-a1-2020>

Replace:

3.13 ambient temperature

by:

3.13 maximum ambient temperature

5 Constructional requirements and performance

5.1 General

Replace the existing third paragraph by the following:

Multi-way connectors shall be designed so that these requirements for earth-faulted and short-circuit-protected installation complies with IEC 62548 or IEC 60364-7-712.

5.2 Marking and identification

5.2.1 Identification

Replace the existing item h) by the following:

h) specified temperatures: ULT, LLT, maximum ambient temperature (minimum +85 °C);