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Fotovoltaiske systemer – Krav til prøvning, dokumentation og vedligeholdelse – Del 1: Nettilsluttede systemer – Dokumentation, afprøvning ved idriftsættelse samt inspektion

Photovoltaic (PV) systems – Requirements for testing, documentation and maintenance – Part 1: Grid connected systems – Documentation, commissioning tests and inspection

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EUROPÄISCHE NORM

October 2018

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English Version

Photovoltaic (PV) systems - Requirements for testing,
documentation and maintenance - Part 1: Grid connected
systems - Documentation, commissioning tests and inspection
(IEC 62446-1:2016/A1:2018)

Systèmes photovoltaïques (PV) - Exigences pour les
essais, la documentation et la maintenance - Partie 1:
Systèmes connectés au réseau électrique - Documentation,
essais de mise en service et examen
(IEC 62446-1:2016/A1:2018)

Photovoltaik (PV) Systeme - Anforderungen an Prüfung,
Dokumentation und Instandhaltung - Teil 1: Netzgekoppelte
Systeme - Dokumentation, Inbetriebnahmeprüfung und
Prüfanforderungen
(IEC 62446-1:2016/A1:2018)

This amendment A1 modifies the European Standard EN 62446-1:2016; it was approved by CENELEC on 2018-09-14. 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

European foreword

The text of document 82/1415/FDIS, future IEC 62446-1:2016/A1, prepared by IEC/TC 82 "Solar photovoltaic energy systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62446-1:2016/A1:2018.

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) 2019-06-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-09-14

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.

Endorsement notice

The text of the International Standard IEC 62446-1:2016/A1:2018 was approved by CENELEC as a European Standard without any modification.

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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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60364-6	-	Low voltage electrical installations - Part 6: Verification	HD 60364-6	-
IEC 60891	2009	Photovoltaic devices - Procedures for temperature and irradiance corrections to measured I-V characteristics	EN 60891	2010
IEC 61010	series	Safety requirements for electrical equipment for measurement, control, and laboratory use	EN 61010	series
IEC 61557	series	Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures	EN 61557	series
IEC 61730	series	Photovoltaic (PV) module safety qualification	EN IEC 61730	series
IEC 62548	2016	Photovoltaic (PV) arrays - Design-requirements		-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

**Photovoltaic (PV) systems – Requirements for testing, documentation and maintenance –
Part 1: Grid connected systems – Documentation, commissioning tests and inspection**

**Systèmes photovoltaïques (PV) – Exigences pour les essais, la documentation et la maintenance –
Partie 1: Systèmes connectés au réseau électrique – Documentation, essais de mise en service et examen**



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FOREWORD

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

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

FDIS	Report on voting
82/1415/FDIS	82/1426/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.

2 Normative references

Replace the following standard:

IEC TS 62548:2013, *Photovoltaic (PV) arrays – Design requirements*

By:

IEC 62548:2016, *Photovoltaic (PV) arrays – Design requirements*

Add the following new note after IEC 62548:

NOTE In some countries IEC 60364-7-712 is preferred over IEC 62548. Both standards are expected to provide similar results.

Add the following new normative reference:

IEC 60891:2009, *Photovoltaic devices – Procedures for temperature and irradiance corrections to measured I-V characteristics*