



SLOVENSKI STANDARD

SIST EN 62670-2:2015

01-september-2015

Preskušanje zmogljivosti fotonapetostnih koncentradorjev (CPV) - 2. del: Merjenje energije (IEC 62670-2:2015)

Concentrator photovoltaic (CPV) performance testing - Part 2: Energy measurement

Konzentrator-Photovoltaik (CPV) Leistungsmessung - Teil 2: Energiemessung

Concentrateurs photovoltaïques (CPV) - Essai de performances - Partie 2: Mesure de l'énergie

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Ta slovenski standard je istoveten z: EN 62670-2:2015

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Sončna energija

Solar energy engineering

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EUROPEAN STANDARD

EN 62670-2

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June 2015

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English Version

**Photovoltaic concentrators (CPV) - Performance testing -
Part 2: Energy measurement
(IEC 62670-2:2015)**

Concentrateurs photovoltaïques (CPV) - Essai de
performances - Partie 2: Mesure de l'énergie
(IEC 62670-2:2015)

Konzentrator-Photovoltaik (CPV) Leistungsmessung -
Teil 2: Energiemessung
(IEC 62670-2:2015)

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN 62670-2:2015**Foreword**

The text of document 82/940/FDIS, future edition 1 of IEC 62670-2, prepared by IEC/TC 82 "Solar photovoltaic energy systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62670-2:2015

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) 2016-03-11
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-06-11

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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 62670-1	-	Photovoltaic concentrators (CPV) - Performance testing - Part 1: Standard conditions	EN 62670-1	-
ISO/IEC 17025	-	General requirements for the competence of testing and calibration laboratories	-	-
ISO 8601	2004	Data elements and interchange formats - Information interchange - Representation of dates and times	-	-
ISO 9060	-	Solar energy; specification and classification of instruments for measuring hemispherical solar and direct solar radiation	-	-
ISO 9847	-	Solar energy - Calibration of field pyranometers by comparison to a reference pyranometer	-	-
JCGM 100	2008	Evaluation of measurement data - Guide to the expression of uncertainty in measurement	-	-

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**PHOTOVOLTAIC CONCENTRATORS (CPV) –
PERFORMANCE TESTING –****Part 2: Energy measurement**

FOREWORD

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International Standard IEC 62670-2 has been prepared by IEC technical committee 82: Solar photovoltaic energy systems.

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

FDIS	Report on voting
82/940/FDIS	82/969/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62670 series, published under the general title *Photovoltaic Concentrators (CPV) – Performance testing*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site 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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INTRODUCTION

IEC 62670 series establishes requirements for evaluating concentrator PV performance. It is written to be applicable to all concentrator PV technologies that have a geometric concentration ratio greater than 3× and require tracking.

Included in the IEC 62670 series of standards are definitions of the standard conditions and methods to be used for assessing CPV performance.

IEC 62670-1 defines a standard set of conditions so that power ratings noted on data sheets and nameplates have a standard basis.

IEC 62670-2 describes an on-sun, measurement based method for determining the energy output and performance ratio for CPV arrays, assemblies and power plants.

IEC 62670-3 (under consideration) describes methods for providing a CPV power assessment under a set of standard conditions, enabling assessments both indoors and outdoors.

IEC 62670-4 (under consideration) describes methods for calculating the prospective electrical energy output of CPV modules, arrays, assemblies and power plants based on the measurements carried out in IEC 62670-2.

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