
Sončne termoelektrarne - 3-2. del: Sistemi in komponente - Splošne zahteve in preskusne metode za velika parabolična korita (IEC 62862-3-2:2018)

Solar thermal electric plants - Part 3-2: Systems and components - General requirements and test methods for large-size parabolic-trough collectors (IEC 62862-3-2:2018)

Solarthermische Kraftwerke - Teil 3-2: Systeme und Komponenten - Allgemeine Anforderungen und Prüfverfahren für Parabolrinnenkollektoren (IEC 62862-3-2:2018)

Centrales électriques solaires thermodynamiques - Partie 3-2: Systèmes et composants - Exigences générales et méthodes d'essai des capteurs cylindro-paraboliques de grande taille (IEC 62862-3-2:2018)

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2: Systèmes et composants - Exigences générales et
méthodes d'essai des capteurs cylindro-paraboliques de
grande taille
(IEC 62862-3-2:2018)

Solarthermische Kraftwerke - Teil 3-2: Systeme und
Komponenten - Allgemeine Anforderungen und
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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 IEC 62862-3-2:2018 (E)**European foreword**

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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) 2019-05-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-08-14

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In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 62817:2014 NOTE Harmonized as EN 62817:2015 (not modified).

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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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>
ISO 9488	1999	Solar energy - Vocabulary	EN ISO 9488	1999
ISO 9806	2017	Solar energy - Solar thermal collectors - Test methods	EN ISO 9806	2017
IEC/TS 62862-1-1	2018	Solar thermal electric plants - Part 1-1: Terminology	-	-

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**Solar thermal electric plants –
Part 3-2: Systems and components – General requirements and test methods for
large-size parabolic-trough collectors**

**Centrales électriques solaires thermodynamiques –
Partie 3-2: Systèmes et composants – Exigences générales et méthodes d'essai
des capteurs cylindro-paraboliques de grande taille**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SOLAR THERMAL ELECTRIC PLANTS –**Part 3-2: Systems and components – General requirements and test methods for large-size parabolic-trough collectors**

FOREWORD

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International Standard IEC 62862-3-2 has been prepared by IEC technical committee 117: Solar thermal electric plants.

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

FDIS	Report on voting
117/87/FDIS	117/89/RVD

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

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

A list of all parts in the IEC 62862 series, published under the general title *Solar thermal electric plants*, can be found on the IEC website.

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

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

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SOLAR THERMAL ELECTRIC PLANTS –

Part 3-2: Systems and components – General requirements and test methods for large-size parabolic-trough collectors

1 Scope

This part of IEC 62862 specifies the requirements and the test methods for the characterization of a large-size parabolic-trough collector.

This document covers the determination of optical and thermal performance of parabolic-trough collectors, and the tracking accuracy of the collector one-axis tracking system. This test method is for outdoor testing only.

This document applies to parabolic-trough collectors equipped with the manufacturer-supplied sun tracking mechanism.

The test method in this document does not apply to any collector under operating conditions where phase-change of the fluid occurs.

This document applies to the whole collector.

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2 Normative references

[SIST EN IEC 62862-3-2:2019](https://standards.iteh.ai/catalog/standards/sist/57a80621-2d2d-4c97-9d36-bc46b3921e50/sist-en-iec-62862-3-2-2019)

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IEC TS 62862-1-1, *Solar thermal electric plants – Terminology*

ISO 9488:1999, *Solar energy – Vocabulary*

ISO 9806:2017, *Solar energy – Solar thermal collectors – Test methods*

3 Terms, definitions and symbols

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 9488, ISO 9806 and IEC 62862-1-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>