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STN	**Solárne tepelné elektrárne Časť 3-2: Systémy a súčasti Všeobecné požiadavky a skúšobné metódy na veľkorozmerné parabolické žľabové kolektory**	**STN EN IEC 62862-3-2** 33 3180

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

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/19

Obsahuje: EN IEC 62862-3-2:2018, IEC 62862-3-2:2018

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EUROPÄISCHE NORM

EN IEC 62862-3-2

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English Version

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)

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)

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

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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 117/87/FDIS, future edition 1 of IEC 62862-3-2, prepared by IEC/TC 117 "Solar thermal electric plants" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62862-3-2:2018.

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• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2021-08-14

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Endorsement notice

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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

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.

Publication	Year	Title	EN/HD	Year
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	-	-

IEC 62862-3-2

Edition 1.0 2018-07

INTERNATIONAL STANDARD

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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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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.

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.

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*