IEC 62862-3-2

Edition 1.0 2018-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

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

IEC 62862-3-2:2018-07 (en-fr)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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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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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- withdrawn,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*

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 TS 62862-1-1 apply.

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