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BSI Standards Publication

Solar thermal electric plants

Part 1-3: General - Data format for meteorological data sets

bsi.

National foreword

This Published Document is the UK implementation of IEC/TS 62862-1-3:2017.

The UK participation in its preparation was entrusted to Technical Committee RHE/25, Solar Heating.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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SOLAR THERMAL ELECTRIC PLANTS –

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Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC TS 62862-1-3, which is a Technical Specification, has been prepared by IEC technical committee 117: Solar thermal electric plants.

The text of this Technical Specification is based on the following documents:

Draft TS	Report on voting
117/68/DTS	117/78/RVDTS

Full information on the voting for the approval of this technical specification 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 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

- transformed into an International standard,
- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

SOLAR THERMAL ELECTRIC PLANTS –

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1 Scope

The goal of this document on data format is to reduce efforts for data exchange and to avoid errors caused by misunderstandings due to the application of various different and at times unclear formats. To achieve this goal, the proposed format has the following properties:

- suitability for common operation systems;
- suitability for satellite/model-derived data;
- suitability for measured data;
- suitability for combined data sets;
- suitability for typical meteorological years and forecasted data.

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.

ISO 8601, *Data elements and interchange formats – Information interchange – Representation of dates and times*

ANSI INCITS 4-1986 (R2007), *American National Standard for Information Systems – Coded Character Sets – 7-Bit American National Standard Code for Information Interchange (7-Bit ASCII)*

3 Terms and definitions

No terms and definitions are listed in this document.

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

4 Format description

The data format has been inspired by the thesaurus on solar irradiance proposed at EnvironInfo 2007.

After a header with information about the data, a data section follows with the meteorological data. The data section starts after the "#begindata" header field (see Table 1), where the first line contains the name or acronym of the parameters. The order of the columns is the same as the order defined on the "channel" description (Table 7). After the data section, the last line of the file contains "#enddata".