ICS 31.080.99 SLOVENSKÁ TECHNICKÁ NORMA August 2017

STN	**Polovodičové súčiastky** **Polovodičové súčiastky na získavanie a výrobu energie** **Časť 2: Získavanie termoelektrickej energie na základe tepelnej energie**	**STN** **EN 62830-2** 35 8790

Semiconductor devices - Semiconductor devices for energy harvesting and generation - Part 2: Thermo power based thermoelectric energy harvesting

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. 07/17

Na základe rozhodnutia BT D153/059 oprava STN EN 62830-2:2017/AC z augusta 2017 ruší základnú normu STN EN 62830-2 z augusta 2017.

Obsahuje: EN 62830-2:2017, IEC 62830-2:2017

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EUROPEAN STANDARD **EN 62830-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM April 2017

ICS 31.080.99

English Version

Semiconductor devices - Semiconductor devices for energy harvesting and generation - Part 2: Thermo power based thermoelectric energy harvesting (IEC 62830-2:2017)

Dispositifs à semiconducteurs - Dispositifs à semiconducteurs pour récupération et production d'énergie - Partie 2: Récupération d'énergie thermoélectrique basée sur la puissance thermoélectrique (IEC 62830-2:2017)

Halbleiterbauelemente - Halbleiterbauelemente für das Energy-Harvesting und die Energieerzeugung - Teil 2: Thermospannungsbasiertes thermoelektrisches Energy-Harvesting (IEC 62830-2:2017)

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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

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European foreword

The text of document 47/2329/FDIS, future edition 1 of IEC 62830-2, prepared by IEC/TC 47 "Semiconductor devices" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62830-2:2017.

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) 2017-11-24
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-02-24

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IEC 62830-2

Edition 1.0 2017-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Semiconductor devices – Semiconductor devices for energy harvesting and generation –
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CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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SEMICONDUCTOR DEVICES – SEMICONDUCTOR DEVICES FOR ENERGY HARVESTING AND GENERATION –

Part 2: Thermo power based thermoelectric energy harvesting

FOREWORD

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International Standard IEC 62830-2 has been prepared by IEC technical committee 47: Semiconductor devices.

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

FDIS	Report on voting
47/2329/FDIS	47/2352/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 the parts in the IEC 62830 series, published under the general title *Semiconductor devices – Semiconductor devices for energy harvesting and generation*, 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.

SEMICONDUCTOR DEVICES – SEMICONDUCTOR DEVICES FOR ENERGY HARVESTING AND GENERATION –

Part 2: Thermo power based thermoelectric energy harvesting

1 Scope

This part of IEC 62830 describes procedures and definitions for measuring the thermo power of thin films used in micro-scale thermoelectric energy generators, micro heaters and micro coolers. This part of IEC 62830 specifies the methods of tests and the characteristic parameters of the thermoelectric properties of wire, bulk and thin films which have a thickness of less than 5 μm and energy harvesting devices that have thermoelectric thin films, in order to accurately evaluate their performance and practical uses. This part of IEC 62830 is applicable to energy harvesting devices for consumer, general industries, military and aerospace applications without any limitations of device technology and size.

2 Normative references

There are no normative references in this document.