

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
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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

125091

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2017
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62830-2

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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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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 (dop) 2017-11-24
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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 –

Part 2: Thermo power based thermoelectric energy harvesting

**Dispositifs à semiconducteurs – Dispositifs à semiconducteurs pour
récupération et production d'énergie –**

**Partie 2: Récupération d'énergie thermoélectrique basée sur la puissance
thermoélectrique**



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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Semiconductor devices – Semiconductor devices for energy harvesting and generation –

Part 2: Thermo power based thermoelectric energy harvesting

Dispositifs à semiconducteurs – Dispositifs à semiconducteurs pour récupération et production d'énergie –

Partie 2: Récupération d'énergie thermoélectrique basée sur la puissance thermoélectrique

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 31.080.99

ISBN 978-2-8322-3830-1

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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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.

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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.

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