

SLOVENSKI STANDARD SIST EN IEC 60904-2:2024

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Fotonapetostne naprave - 2. del: Zahteve za referenčne sončne naprave

Photovoltaic devices - Part 2: Requirements for photovoltaic reference devices

Photovoltaische Einrichtungen - Teil 2: Anforderungen an Referenz-Solarelemente

Dispositifs photovoltaïques - Partie 2: Exigences applicables aux dispositifs photovoltaïques de référence

Ta slovenski standard je istoveten z: EN IEC 60904-2:2023

ICS:

27.160 Sončna energija

Solar energy engineering

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Photovoltaic devices - Part 2: Requirements for photovoltaic reference devices (IEC 60904-2:2023)

Dispositifs photovoltaïques - Partie 2: Exigences applicables aux dispositifs photovoltaïques de référence (IEC 60904-2:2023)

Photovoltaische Einrichtungen - Teil 2: Anforderungen an Referenz-Solarelemente (IEC 60904-2:2023)

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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

EN IEC 60904-2:2023 (E)

European foreword

The text of document 82/2127/FDIS, future edition 4 of IEC 60904-2, prepared by IEC/TC 82 "Solar photovoltaic energy systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60904-2:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2024-04-24 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2026-07-24 document have to be withdrawn

This document supersedes EN 60904-2:2015 and all of its amendments and corrigenda (if any).

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Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 60904-2:2023 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 61215 (series) NOTE Approved as EN IEC 61215 (series)

IEC 61853-1 NOTE Approved as EN 61853-1

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.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60891	-	Photovoltaic devices - Procedures for temperature and irradiance corrections to measured I-V characteristics	EN IEC 60891	-
IEC 60904-1	-	Photovoltaic devices - Part 1: Measurement of photovoltaic current- voltage characteristics	EN IEC 60904-1	-
IEC 60904-3	(h	Photovoltaic devices - Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data	EN IEC 60904-3	-
IEC 60904-4	-	Photovoltaic devices - Part 4: Photovoltaic reference devices - Procedures for establishing calibration traceability	EN IEC 60904-4	-
IEC 60904-5 _{1.ai/ca}	talog/sta	Photovoltaic devices - Part 5: Determination of the equivalent cell temperature (ECT) of photovoltaic (PV) devices by the open-circuit voltage method	EN 60904-5 c/sist-o	e n -iec-
IEC 60904-7	-	Photovoltaic devices - Part 7: Computation of the spectral mismatch correction for measurements of photovoltaic devices	EN IEC 60904-7	-
IEC 60904-8	-	Photovoltaic devices - Part 8: Measurement of spectral responsivity of a photovoltaic (PV) device	EN 60904-8	-
IEC 60904-9	-	Photovoltaic devices - Part 9: Classification of solar simulator characteristics	EN IEC 60904-9	-
IEC 60904-10	-	Photovoltaic devices - Part 10: Methods of linear dependence and linearity measurements	EN IEC 60904-10	-
IEC/TS 61836	-	Solar photovoltaic energy systems - Terms, definitions and symbols	CLC/TS 61836	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE



Photovoltaic devices -

Part 2: Requirements for photovoltaic reference devices

Dispositifs photovoltaïques -

Partie 2: Exigences applicables aux dispositifs photovoltaïques de référence

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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CONTENTS

FC	REWO	RD	3			
1	Scop	9	5			
2	Norm	5				
3	Term	6				
4		tion of reference device				
-	4.1	General requirements				
	4.2	Additional requirements for single reference cell in a multi-cell package				
	4.3	Additional requirements for reference modules				
	4.4	Requirements for built-in shunt resistors				
5	Temp	erature measurement				
6		rical connections				
7		ration				
	7.1	General requirements				
	7.2	Calibration value(s)				
	7.3	Spectral responsivity				
	7.4	Temperature coefficients				
	7.5	Linearity				
8		mentation and report				
	8.1	General	11			
	8.2	Device documentation				
	8.3	Calibration report				
9	Mark	ng (httns://standards.iteh.ai)				
10		aging				
	10.1	Recommended packaging for use in natural sunlight				
	10.2	Recommended packaging for use under solar simulators				
	10.3	Single cell package SIST EN IEC 60904-2:2024				
11	Care	of reference devices				
12 Usage of reference devices						
13 Calibration of secondary reference devices against a primary reference cell14						
	13.1	General				
	13.2	Natural sunlight				
	13.3	Simulated sunlight				
	13.4	Test procedure				
	13.5	Additional measurements				
	13.5.	1 Spectral responsivity	17			
	13.5.	2 Temperature coefficient(s)	17			
	13.5.	3 Linearity	17			
14	Calib	ration of working reference device against a secondary reference device	17			
Bik	oliograp	hy	19			
Fig	gure 1 –	Single cell package	7			
		Single reference cell in a multi-cell package				

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PHOTOVOLTAIC DEVICES -

Part 2: Requirements for photovoltaic reference devices

FOREWORD

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IEC 60904-2 has been prepared by IEC technical committee 82: Solar photovoltaic energy systems. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2015. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) added calibration procedures for calibrating PV devices at maximum power by extending the respective Clauses 12 and 13;
- b) revised requirements for mandatory measurement of spectral responsivity, temperature coefficients and linearity, depending on usage and allowing some measurements on equivalent devices;
- c) revised requirements for built-in shunt resistor;
- d) added requirements for traceability of calibration explicitly.

-4-

The text of this International Standard is based on the following documents:

Draft	Report on voting
82/2127/FDIS	82/2151/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 60904 series, published under the general title *Photovoltaic devices*, 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 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 eh Standards
- amended.

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