

Photovoltaic devices - Procedures for temperature and irradiance corrections to measured I-V characteristics

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 60891:2021 sisaldab Euroopa standardi EN IEC 60891:2021 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 60891:2021 consists of the English text of the European standard EN IEC 60891:2021.
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NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 60891

December 2021

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Supersedes EN 60891:2010 and all of its amendments
and corrigenda (if any)

English Version

Photovoltaic devices - Procedures for temperature and
irradiance corrections to measured I-V characteristics
(IEC 60891:2021)

Dispositifs photovoltaïques - Procédures pour les
corrections en fonction de la température et de l'éclairement
à appliquer aux caractéristiques I-V mesurées
(IEC 60891:2021)

Verfahren zur Umrechnung von gemessenen Strom-
Spannungs-Kennlinien von photovoltaischen Bauelementen
auf andere Temperaturen und Bestrahlungsstärken
(IEC 60891:2021)

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European foreword

The text of document 82/1936/FDIS, future edition 3 of IEC 60891, prepared by IEC/TC 82 “Solar photovoltaic energy systems” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60891:2021.

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) 2022–09–01
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024–12–01

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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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60904-1	-	Photovoltaic devices - Part 1:EN IEC 60904-1	-	-
		Measurement of photovoltaic current-voltage characteristics		
IEC/TS 60904-1-2		Photovoltaic devices - Part 1-2: Measurement of current-voltage characteristics of bifacial photovoltaic (PV) devices		
IEC 60904-2	-	Photovoltaic devices - Part 2:EN 60904-2	-	-
		Requirements for photovoltaic reference devices		
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:EN 60904-8	-	-
		Measurement of spectral responsivity of a photovoltaic (PV) device		
IEC 60904-9	-	Photovoltaic devices - Part 9: Classification of solar simulator characteristics	EN IEC 60904-9	-
IEC 60904-10	2020	Photovoltaic devices - Part 10: Methods of linear dependence and linearity measurements	EN IEC 60904-10	2020
IEC 61215-2	-	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 2: Test procedures	-EN IEC 61215-2	-
IEC/TS 61836	-	Solar photovoltaic energy systems -- Terms, definitions and symbols	--	-

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Photovoltaic devices – Procedures for temperature and irradiance corrections to measured I-V characteristics

Dispositifs photovoltaïques – Procédures pour les corrections en fonction de la température et de l'éclairement à appliquer aux caractéristiques I-V mesurées





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This third edition cancels and replaces the second edition published in 2009. This edition constitutes a technical revision.

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

- adds guidance on which correction procedure shall be used depending on application;
- introduces translation procedure 4 applicable to c-Si technologies with unknown temperature coefficients;
- introduces various clarifications in existing procedures to improve measurement accuracy and reduce measurement uncertainty;
- adds an informative annex for supplementary methods that can be used for series resistance determination.

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

FDIS	Report on voting
82/1936/FDIS	82/1957/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/standardsdev/publications.

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