EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 60891:2021/AC:2024-11

November 2024

ICS 27.160

English Version

Photovoltaic devices - Procedures for temperature and irradiance corrections to measured I-V characteristics (IEC 60891:2021/COR1:2024)

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/COR1:2024)

Photovoltaische Einrichtungen - Verfahren zur Umrechnung von gemessenen Strom-Spannungs-Kennlinien auf andere Temperaturen und Bestrahlungsstärken (IEC 60891:2021/COR1:2024)

This corrigendum becomes effective on 1 November 2024 for incorporation in the English language version of the EN.

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Endorsement notice

The text of the corrigendum IEC 60891:2021/COR1:2024 was approved by CENELEC as EN IEC 60891:2021/AC:2024-11 without any modification.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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IEC 60891
Edition 3.0 2021-10

PHOTOVOLTAIC DEVICES – PROCEDURES FOR TEMPERATURE AND IRRADIANCE CORRECTIONS TO MEASURED I-V CHARACTERISTICS

IEC 60891
Édition 3.0 2021-10

DISPOSITIFS PHOTOVOLTAÏQUES – PROCÉDURES POUR LES CORRECTIONS EN FONCTION DE LA TEMPÉRATURE ET DE L'ÉCLAIREMENT À APPLIQUER AUX CARACTÉRISTIQUES I-V MESURÉES

CORRIGENDUM 1

Corrections to the French version appear after the English text.

Les corrections à la version française sont données après le texte anglais.

Replace the existing second item in the dashed list in 5.1 by the following:

Relative temperature coefficients (α_{rel}, β_{rel} and δ_{rel}) expressed in percentage per unit temperature (%/K or %/°C) can be determined by dividing the calculated value of temperature coefficients α, β, and δ by the values of short-circuit current, open-circuit voltage and maximum power respectively determined from the least squares fit at 25 °C corresponding to an irradiance of 1 000 W/m^2. The relative coefficients so determined are valid at the irradiance and spectrum at which the measurements were made. For linear PV devices with respect to irradiance (typically the case for c-Si), the relative temperature coefficient α_{rel} is valid over the entire range of irradiance for which the device is linear according to IEC 60904-10, whereas the relative temperature coefficient β_{rel} scales with $f^2(G)$ (see Formula (7)).

IEC 60891:2021-10/COR1:2024-10(en-fr)