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

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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)).