INTERNATIONAL STANDARD

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Photovoltaic devices –

Part 7:
Computation of spectral mismatch error introduced in the testing of a photovoltaic device

Dispositifs photovoltaïques –

Partie 7: Calcul de l'erreur de désadaptation des réponses spectrales dans les essais d'un dispositif photovoltaïque

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

PHOTOVOLTAIC DEVICES –

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FOREWORD

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International Standard IEC 904-7 has been prepared by IEC technical committee 82: Solar photovoltaic energy systems.

The text of this standard is based on the following documents:

DIS	Report on voting
82(CO)12	82(CO)20

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

PHOTOVOLTAIC DEVICES –

Part 7: Computation of spectral mismatch error introduced in the testing of a photovoltaic device

1 Scope

This part of IEC 904 describes the procedure for determining the error introduced in the testing of a photovoltaic device caused by the interaction of the mismatch between the spectral responses of the test specimen and the reference device, and the mismatch between the test spectrum and the reference spectrum. The procedure applies only to linear photovoltaic devices.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this part of IEC 904. At the time of publication, the edition indicated was valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 904 are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 904-3: 1989, *Photovoltaic devices – Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data*