

IS 12762 (Part 2) : 2013 IEC 60904-2 : 2007

## Indian Standard PHOTOVOLTAIC DEVICES

PART 2 REQUIREMENTS FOR REFERENCE SOLAR DEVICES

## (First Revision)

## 1 Scope and object

This part of IEC 60904 gives requirements for the classification, selection, packaging, marking, calibration and care of reference solar devices.

This standard covers solar reference devices used to determine the electrical performance of solar cells, modules and arrays under natural and simulated sunlight. It does not cover solar reference devices for use under concentrated sunlight.

## 2 Normative references

The following referenced documents are indispensable for the application 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.

IEC 60891, Procedures for temperature and irradiance corrections to measured I-V characteristics of crystalline silicon photovoltaic devices

IEC 60904-1, Photovoltaic devices – Part 1: Measurements of photovoltaic current-voltage characteristics

IEC 60904-5, Photovoltaic devices – Part 5: Determination of the equivalent cell temperature (ECT) of photovoltaic (PV) devices by the open-circuit voltage method

IEC 60904-7, Photovoltaic devices – Part 7: Computation of spectral mismatch error introduced in the testing of a photovoltaic device

IEC 60904-8, Photovoltaic devices – Part 8: Measurement of spectral response of a photovoltaic (PV) device

IEC 60904-9, Photovoltaic devices - Part 9: Solar simulator performance requirements

IEC 60904-10, Photovoltaic devices - Part 10: Methods of linearity measurement

IEC 61215, Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval

IEC 61646 , Thin-film terrestrial photovoltaic (PV) modules – Design qualification and type approval