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Draft Indian Standard

Photovoltaic Devices Part 9: Solar Simulator Performance Requirements (First Revision)Last date of receipt of comments: **25 October 2021**

Solar Photovoltaic Energy Systems Sectional Committee, ETD 28

NATIONAL FOREWORD

This draft Indian Standard which is identical with IEC 60904-9: 2020 “Photovoltaic Devices Part 9: Classification of Solar Simulator Characteristics” issued by the International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of the Solar Photovoltaic Energy Systems Sectional Committee and approval of the Electrotechnical Division Council.

This standard was first published in 2010. The first revision of this standard has been undertaken to align it with the latest version of IEC 60904-9: 2020.

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60904-1, Photovoltaic devices – Part 1: Measurements of photovoltaic current-voltage characteristics	IS 12762 (Part 1): 2010 - Photovoltaic Devices Part 1 Measurement of Photovoltaic Current-Voltage Characteristics (<i>First Revision</i>)	Identical with IEC 60904-1 : 2006
IEC 60904-3, Photovoltaic devices – Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data	IS 12762 (Part 3): 2020 Photovoltaic Devices Part 3 Measurement Principles for Terrestrial Photovoltaic PV Solar Devices with Reference Spectral Irradiance Data (<i>Third Revision</i>)	Identical with IEC 60904-3: 2019

IEC TS 61836, Solar photovoltaic energy systems – Terms, definitions and symbols	IS 12834: 2013- Solar Photovoltaic Energy Systems — Terms, Definitions and Symbols (<i>First Revision</i>)	Identical with IEC/TS 61836 : 2007
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The technical committee has reviewed the provisions of the following international standards referred in this adopted standard and decided that they are acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
IEC TR 60904-14	Photovoltaic devices – Part 14: Guidelines for production line measurements of single junction PV module maximum power output and reporting at standard test conditions

Only the English language text has been retained while adopting it in this Indian Standard, and as such, the page numbers given here are not the same as in the IEC Publication.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test, shall be rounded off in accordance with IS 2: 1960 ‘Rules for rounding off numerical values (*revised*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Note: The technical content of the document is not available on website. For details, please refer the corresponding IEC 60904-9: 2020 or kindly contact:

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