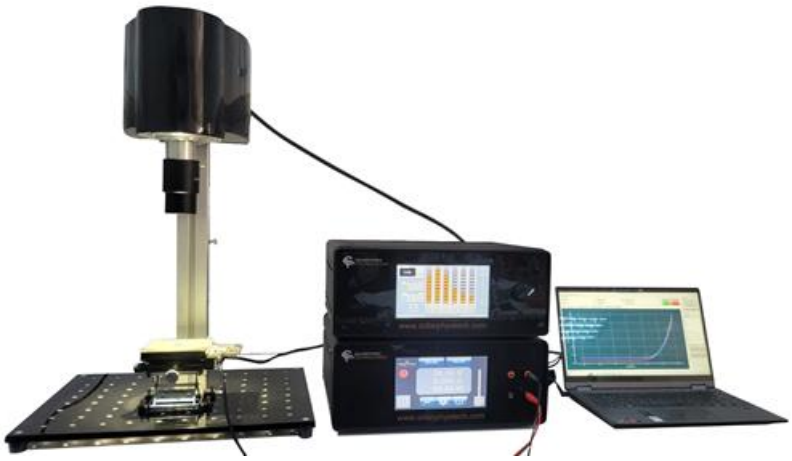
SS AAA SOLAR SIMULATOR

SM-X12



Solar simulator for current-voltage (I-V) characteristic measurements Solar simulator for power-voltage (P-V) of solar cells measurements SOLARPHYSTECH solar simulator is manufactured in accordance with IEC 60904-9 2007, JIS C 891 standards. SM-X12 solar simulator is automatically analyzed current-voltage (I-V), power-voltage (P-V) characteristics of the any solar cell.

SPECIFICATIONS

AAA Solar Simulator

• 1.5G Air Mass Filter

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✓ AAA Class solar spectrum

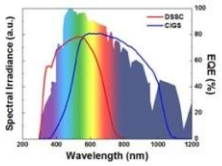
This genuine light source perfectly mimics sunlight, and presents an outstanding light stability over a long period of time. The unmatched features of the solar light engine allow Solaronix to supply today's photovoltaic industry with accurate and dependable testing equipment

• Digital Shutter Timer

.This feature allows the solar simulator to measure photovoltaic parameters under various solar intensities

Source meter Current range: ±50 pA-250 mA

▪ Source Voltage range: ±20 mV to ±20V



Open circuit voltage: V_{oc}

Short circuit Current:I_{sc}

Maximum power, P_{max}

Maximum Current, I_{max}

Series Resistance: R_s

Measurement Photovoltaic Parameters:

Shunt Resistance: R_{sh}

Efficiency

• Single cell and module metrology

• Light and Dark curve measurement

Compatible

Sandwich construction (DSSCs)

superstrate

(Silicon Solar cells

CIGS solar cells) and s**ingle substrate thin-film devices**

(Perovskite Solar cells, Quantum dot Solar

cells, and Polymer heterojunction Solar cells).

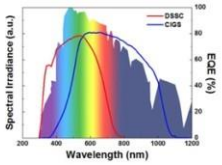
• Top and bottom illumination compatible

• Adjustable locator allows correct and reproducible device positioning

Spectral Match: A - IEC 60904-9 2007, JIS C 8912, ASTM E 927-05

SOFTWARE

Software measure all photovoltaic parameters of solar cells by computer. The system determine all photovoltaic parameters.



Certificate Compliance

Product: Solar Simulator Model: SM-X12 SN: 112

Applicable Standards: ASTM E 72-10, EIC 60904-9, JIS C 891 Spectral Fit

Spectral Match Compared to AM 1.5G

Band/Band	**Class A limits**	**Error**	**Status**	**Class**
400-500nm	%25	-4.30%	Pass	A
500-600nm	%25	2.20%	Pass	A
600-700nm	%25	1.02%	Pass	A
700-800nm	%25	-2.50%	Pass	A
800-900nm	%25	-1.80%	Pass	A
900-1100nm	%25	3.40%	Pass	A

SOLARPHYSICS

TECHNOLOGIES

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