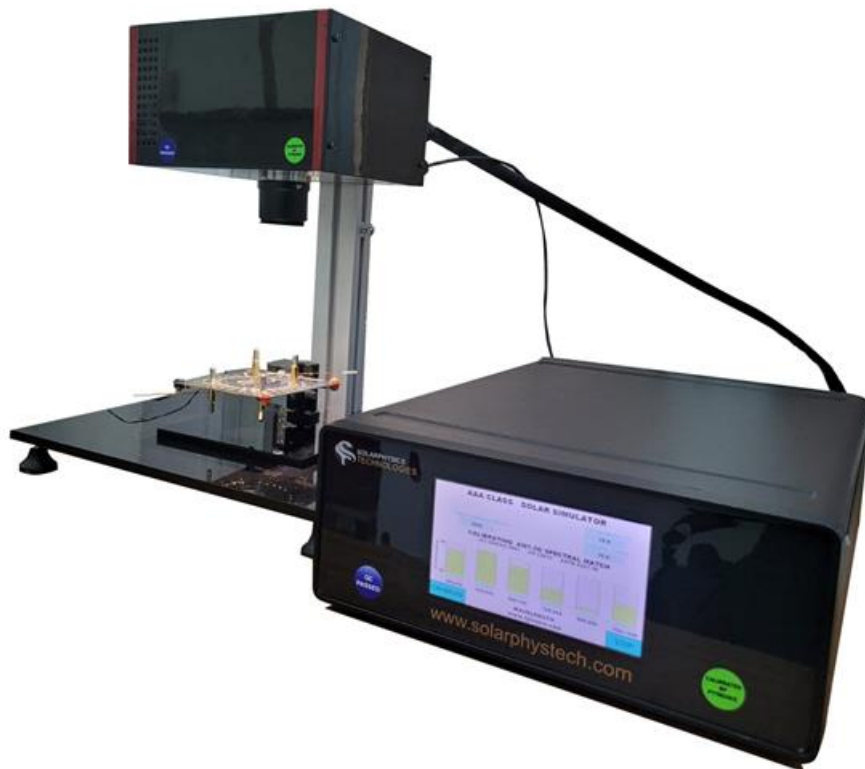


LED SOLAR SIMULATOR X-13



Solar simulators are manufactured in various style according to requested specifications

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.

SPECIFICATIONS

LED SOLAR SIMULATOR

Class: AAA, IEC Standard

Illumination area: 50mmx50mm

Output power: 100 mW/cm² or 1.1 sun with life time >10000 h

Output: Variable: 0.1 to 1.1 SUN by changing distance

Run time: 10 ms

Range: 400 nm-1100nm

Standards:

Temporary Stability A IEC 60904-9 2007, JIS 8904-9, 2017

Uniformity: A- IEC 60904-9, JIS 8904-9, 2017

Spectral Matching: A

Working distance: 12 inches

USB control 2.0

Operating temperature: 10-40 °C

Storage temperature -40 to 70 °C

Humidity <85%

Compliance: CE, ROHS

Power: 220V- 240 V, 47-63 Hz, 2.8A

Optical Bread board

SOFTWARE

Software measure all photovoltaic parameters of solar cells by computer. the system determine all photovoltaic parameters. software of solar simulator system determine the following photovoltaic parameters such as solar simulator determine the photovoltaic parameters as follows

Open circuit voltage (V_{oc})

Short circuit current (I_{sc})

Fill factor (ff)

Voltage at p_{max} (V_{max})

Current at p_{max} (I_{max})

Maximum power output (p_{max})

Shunt resistance (r_{sh}) •

Series resistance (r_s) •

Characteristic resistance of solar cell (r_{ch}) •

Photoreponse (RR)

Solar cell efficiency (η)

Certificate Compliance

07.082.021

Product: Solar Simulator

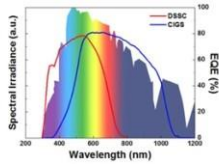
Model: SOLAR TECH X-11 SN: 112 Applicable

Standards: ASTM E 72-10, EIC 60904-9, JIS C 8912

Spectral Fit

Spectral Match Compared to AM 1.5G

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



+90 531 550 1440

solarphystech@gmail.com - info@solarphystech.com