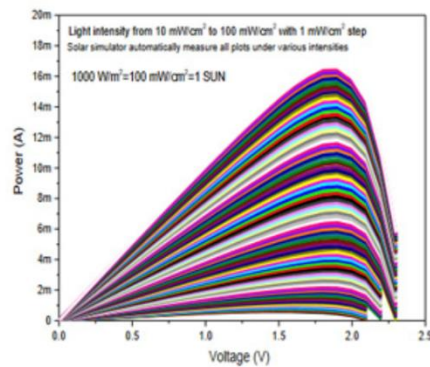




Next Generation Technology

300 W AAA CLASS SOLAR SIMULATOR



Solar simulators are manufactured in various style according to requested specifications

Solar simulator is used for current-voltage (I-V) characteristic measurements is used Solar simulator for power-voltage (P-V) of solar cells measurements

Housing is designed according the requested specifications



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FYTRONIX solar simulator is manufactured in accordance with IEC 60904-9 2007, ASTM E 72-10, , JIS C 891 standards.

FYTRONIX solar simulator is manufactured in accordance with IEC 60904-9 2007, JIS C 891 standards.

SPECIFICATIONS

Solar simulator

Spectral range: 200-2400 nm

Light source: Xenon lamp (F1 condenser optics)

Voltage: 100-240 V, 50- 60 Hz

Power supply

Ozone free Lamp

Light source life: 1000 hrs

Color temperature : 6000 K

Beam diameter: 50 mm

High colour rendering index: Ra>95

High arc stability

Power : 150 W

AM1.5 spectrum

Hot resart capability

Optical power: 1500 W/m²



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Specifications:

Light source: F1 condenser optics
100/240V, 50-60Hz

(Including Housing, Power supply and
Bulb)

Bulb: OZONE Free lamp

Bulb life :1000hrs

Colour temperature: 6000K (Daylight)

High arc stability

High colour rendering index; Ra>95

Hot restart capability

Bulb Life: 1000 Hrs.

Power :150W

Spectral range 200-2400nm

Beam diameter: 50mm

Compliance: standard complaint to
AM1.5G operation

Optical Power: Around 1500W/m²

Spatial non-Uniformity, Spectral Match, Temporal Instability)

Illumination area: 50x50mm

Output Irradiance AM1.5G1Sun=100mW/cm²) Up to 2Sun

Xenon Short Arc ozone free Lamp Watt: 300W

Working Distance(cm): 38 ±15

,Manuel Shutter

Attenuator: Manual Variable Attenuator

Dimensions(L×W×H): 535×183×188 mm

Power Adjustable touch screen power supply with110-240V, 50Hz/60Hz, 450W

Stability/Ripple/Regulation:0.05%/

Adjustable working distance controller:

Height adjustable stand

AM1.5G filter and FT-style filter holder.

Filter diameter: 7.6 cm or 76 mm



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10nm Bandpass filters centered at 380nm and 420nm.

Mounted Diameter: 50 mm

Filter holder

A replacement 300W short arc xenon bulb should be included

Warranty: 2 years

Optics against manufacturing defect: 90 days

SOFTWARE (optional)

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 automatically determine the photovoltaic parameters as follows

Open circuit voltage (voc)

Short circuit current (isc)

Fill factor (ff)

Voltage at pmax (vmax)

Current at pmax (imax)

Maximum power output (pmax)

Shunt resistance (rsh) •

Series resistance (rs) •

Characteristic resistance of solar cell (rch) •

Photoreponse (RR)

Solar cell efficiency (n)

Certificate Compliance

07.082.021

Product: Solar Simulator Model: SOLAR TECH X-11 SN: 112 Applicable



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

Spectral Fit

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



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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



Next Generation Technology

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