

LEDs COPY THE SUN

The LED solar simulator LS-2 is the ideal solar simulator and light soaker for early stage R+D. Its nearly perfect simulation of the sun's spectrum enables highly accurate solar cell efficiency measurement at minimum operating costs due to the long life time of LEDs. LED's present the new benchmark!

FEATURES

- Multi color LED-based light source for perfect copy of the sun
- Exceeds class AAA criteria
- Long exposure time for high-efficiency solar cells
- Long lifetime LEDs
- Easy to operate
- Trigger input for IV measurement

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CLASSIFICATION

	LS-2		Class AAA requirements
Spectral Match	Class A	0.75 - 1.25	0.75 - 1.25
Non-uniformity of irradiance	Class A	< 2%	< 2%
Short-term instability (STI)	Class A	< 0.5%	< 0.5%
Long term instability (LTI)	Class A	< 2%	< 2%

Classification conditions: 100 ms irradiance time, 1 sun, AM1.5, 16x16cm²

SPECTRAL QUALITY

Wavelength range (nm)	Spectrum of LS-2	AM1.5
400 - 500	18.4%	18.4%
500 - 600	19.9%	19.9%
600 - 700	18.4%	18.4%
700 - 800	14.9%	14.9%
800 - 900	12.5%	12.5%
900 -1,100	15.9%	15.9%

PRODUCT FEATURES

Spectrum	AM1.5G Optional: AM0 or any customer defined spectrum possible with light engine including illumination by single colors Spectral range from 360-1100nm, other ranges upon request.
Intensity	0.2 to 1.2 suns
Irradiance time	As required: from 10 ms up to 100 ms, Optional: Continuous illumination, requires water cooling.
Flash-to-flash time interval	10-60 s, depends on irradiance time and intensity
Test area	Class A uniformity: 16x16 cm ²
Area of LED array	32x34 cm ²
IV sweep trigger	Light engine can be triggered by SMU for IV sweeps

SCOPE OF DELIVERY

Light engine	All Cables
Power supply	CE certificate
Laptop	Manuals

Specifications subject to technical changes, LS-2 2018_09_07

CONTACT

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