



SOLARONIX



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Lumixo-S

Based on Solaronix' exclusive light engine, our solar simulation equipment delivers a perfect and continuous artificial sunlight 24/7, allowing for accurate stability and performance assessments of solar cells at laboratory and industrial scale.

INNOVATIVE SOLUTIONS FOR SOLAR PROFESSIONALS

LUMIXO-S, THE HEART OF OUR SOLAR TESTING EQUIPMENT

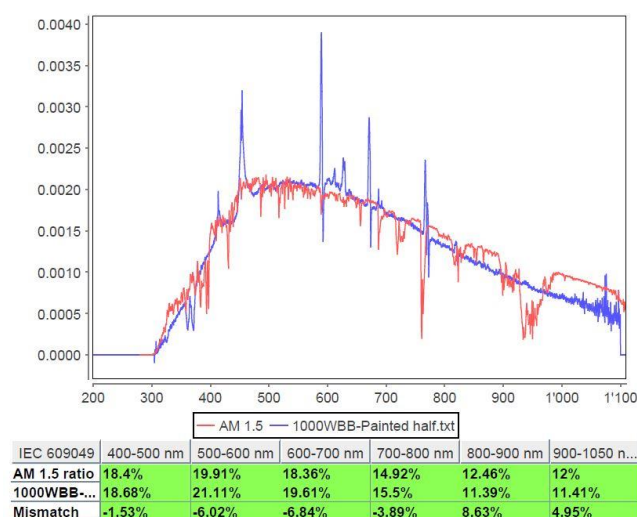
The need for a reliable and accurate light source for solar simulation and solar cell testing emerged during the early days of Solaronix. At the time, available light sources appeared to be unstable over time and led to biased photovoltaic measurements. With the same credo of autonomy and technological leadership, Solaronix developed a specific type of light source to overcome such limitations, the Lumixo-S light engine.

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

In common discharge lamps, the light is emitted as an electrical arc between two electrodes. The extreme temperature of the discharge causes electrode breakdown after a few hundred hours of operation.

Alternatively, plasma lamps belong to a class of electrodeless light sources energized by radio frequency power. In the Lumixo-S light engine, a radio frequency system generates the power necessary to excite a plasma in a sealed electrode-less bulb. The bulb's lifetime itself is virtually infinite, allowing for the Lumixo-S's outstanding lifetime of 20,000 hours. The end-of-life time is actually dictated by the rotating part (fans) and the radio frequency system, parts that can be easily replaced. Existing Solaronix solar simulators have over 63,000 hours of operation!

Proper documentation and remote assistance is provided to make Lumixo-S light engine service trouble free, directly on-site by the customer's team.



Specifications:

- outstanding lifetime of the light emitter (> 20,000 h), unprecedented for a 1 kW light source
- continuous illumination, especially well suited for monitoring thin film and other 3rd generation solar cells
- temporal light stability allowing an excellent measurement reproducibility over a long period of time
- smooth and continuous light spectrum with a sun-like wavelength distribution
- sun spectrum available, high-end Class A (70 lm/W)
- beautifully simple design, no filter needed
- adjustable illumination (60%-110%) to operate at partial sun equivalents
- safe: does not contain mercury
- reduced cost of ownership and streamlined maintenance

Software control:	Desktop application (RS232) or web based control (CAN server)
	Included
Radio frequency system power supply:	20'000 hours, serviceable
Lamp life time:	24 months
Warranty:	220-230 VAC, 50/60 Hz, max 1.5 kW
Electrical:	8.5 kg (included power supply)
Weight:	Power supply not show, H 125 x W 240 x L165 mm
Dimensions:	Windows 7 Professional 32/64 bits, English version
Computer:	



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