LED´s MEASURE SOLAR CELLS

LED SOLAR SIMULATOR SINUS-230 LIGHT

The LED **solar simulator SINUS-230 LIGHT** is the ideal solar simulator and light soaker for early-stage R&D. Its very accurate simulation of the sun's spectrum enables reliable long-term irradiation at minimum operating costs due to the long lifetime of LEDs. **LED's** present the new benchmark!

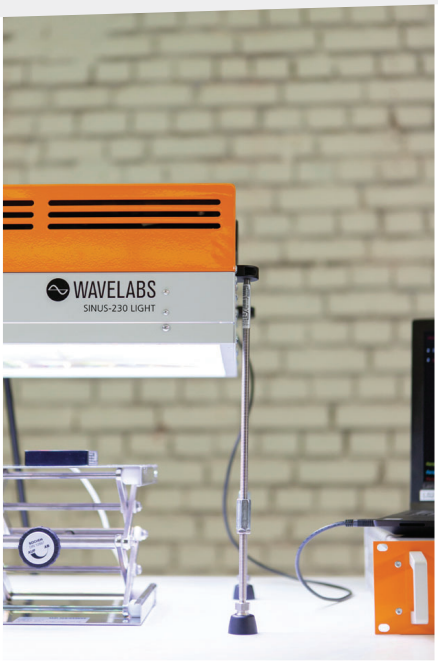
HIGHLIGHTS

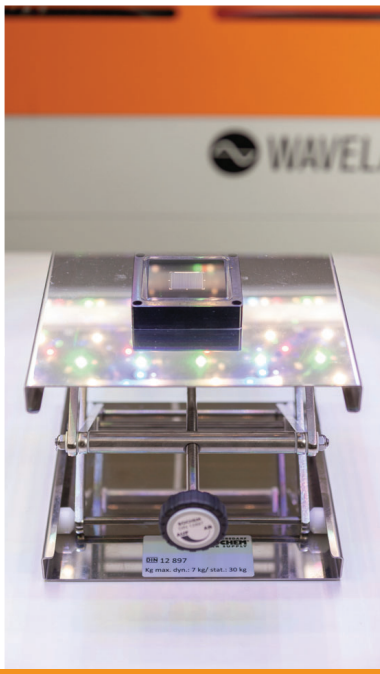
Multicolor LED-based light source
for a perfect copy of the sun

Meets class AAA criteria
(IEC 60904-9 ed.2) for spectral match, non-uniformity and temporal stability

Typical LED lifetime
of 20,000 hrs and more

Wide range of exposure times
from flashes up to continuous illumination





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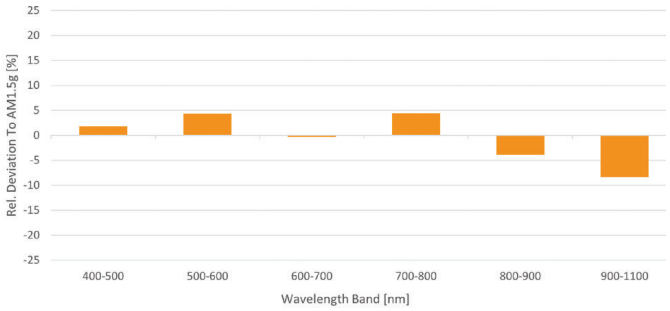
SINUS-230 LIGHT

CLASSIFICATION

	SINUS-230 LIGHT		Class AAA requirements (IEC 60904-9 Ed. 2)
Spectral match	Class A	0.75 - 1.25	0.75 - 1.25
Nonuniformity of irradiance	Class A	< 2%	< 2%
Long-term instability (LTI)	Class A	< 2%	< 2%

Classification conditions: 100 ms irradiance time with 20 ms pre-measurement delay,
1 sun, AM1.5g, 160 x 160 mm²
110 mm working distance between light engine and test plane

SPECTRAL QUALITY



PRODUCT FEATURES

Spectrum	AM1.5g Optional: AM0 or any customer-defined spectrum possible with light engine including illumination by single colors upon request. Spectral range from 350 nm - 1,100 nm
Intensity	0.2 to 1.2 suns
Irradiance time	As required: From 10 ms up to 250 ms **Optional:** Continuous illumination, requires water-cooling
Flash-to-flash time interval	From 1 s, depends on irradiance time and intensity
Test area	Class A uniformity: 160 x 160 mm²
Area of LED array	320 x 340 mm²
I-V sweep trigger	Light engine can be triggered by SMU for I-V sweeps

SCOPE OF DELIVERY

- Light engine (L x D x H) 437 mm x 376,1 mm x 157 mm, 12.8 kg
- Power supply: 19'' rack mount chassis, 2U
- Laptop with software
- All cables
- CE certificate
- User manuals