

MBJ Mini Sunlike Lab



Made for cell development

The MBJ Mini Sunlike Lab is designed for the characterization of small modules during the development of new cell technologies like Perovskites in the lab.

The configuration with 32 different LED types provides an outstanding good spectrum with a spectral coverage of 100% and a spectral deviation of < 12%.

For operation with continuous light, the LED unit and the holder for the cell or module are water-cooled.

- Continuous or flash mode
- Long LED lifetime
- IV measurement
- Compact set up
- Made in Germany



Sun Simulator	Advanced spectrum
Spectrum / Light source	Class A+ IEC 60904-9 Ed.3 LED with UV and IR extended spectrum
No. of LED types	22
Spectral coverage (SPC)	100 %
Spectral deviation (SPD)	< 12 %
Configurable irradiance	200 - 1300 W/m ²
Non uniformity	< ± 1 % (Class A+ IEC 60904-9 Ed.3 < ± 1 %)
Long term instability (LTI)	< ± 0.5 % (Class A+ IEC 60904-9 Ed.3 < ± 1 %)
Accuracy of Pmax	+/- 0.2% (FSR)
Measurement modes	Forward and backward sweep, high capacity measurement mode
Flash pulse duration	500 ms long pulse, steady light capable
Load element	Active electronic load

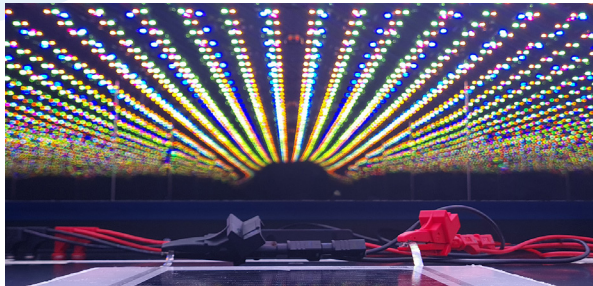


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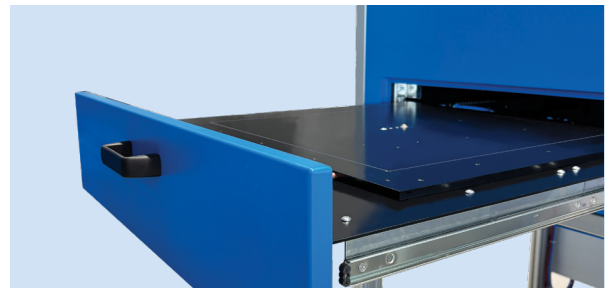
LED technology offers many advantages. Continuous light and flash operation are possible. The intensity can be easily varied from 200 W/m² to 1300 W/m².



Self-explanatory software

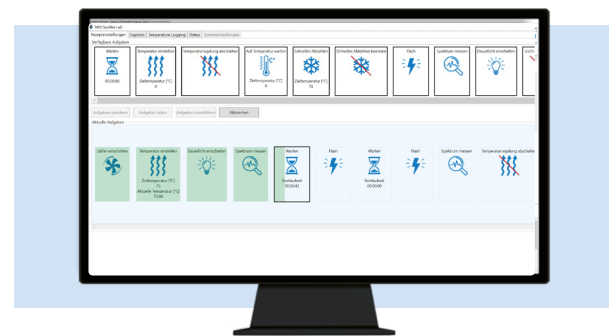
The intuitive software makes operating the system easier than ever.

Measurement sequences including heating, preconditioning, measuring and cooling can be easily configured with a mouse click using drag and drop.



It is also easy to vary the spectrum to your own test scenarios. Our LEDs are also maintenance-free and long-lasting.

For operation with continuous light, the LED unit and the holder for the cell or module are water-cooled.



Technical specification	
Max. module size	500 x 500 mm
Max. active area (A+)	600 x 600 mm
Module types	framed modules, unframed glass – foil / glass – glass
Contacting of modules	Alligator clip (Kelvin clamp)
Results	Data base for storage and access of the inspection results. All results are stored with the module ID.
Cooling system	
WL Series Liquid Cooling System	Liquid to air heat exchanger
Nominal Cooling Capacity	5000 W
Coolant	Water or Water/Glycol
Operating temperature	5°C to 40 °C
Storage temperature range (w/o coolant)	25°C to 70°C

