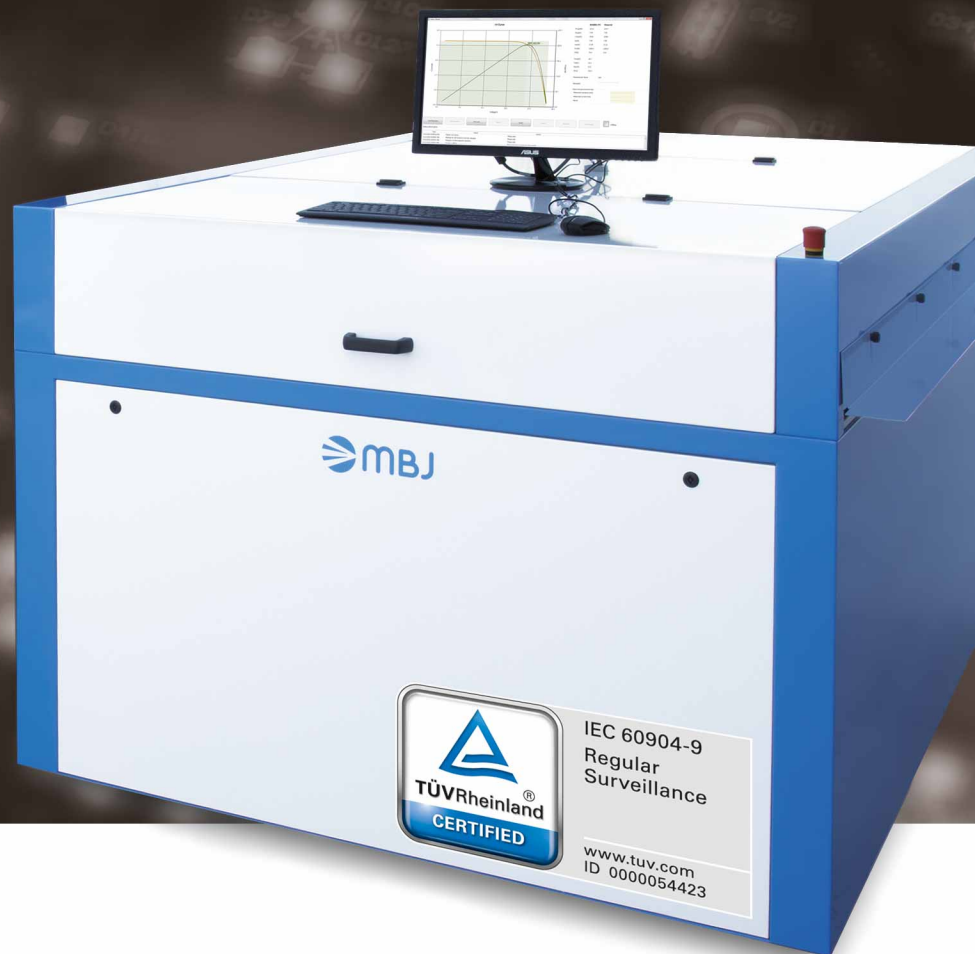


MBJ LED sun simulator

Future-proof innovative LED technology

Innovative inspection solutions
for the photovoltaic industry



A+A+A+ LED Sun Simulator IEC 60904-9 TÜV certified

- Superior LED life time
- Pulse width up to 200ms
- Highest repeatability
- Made in Germany

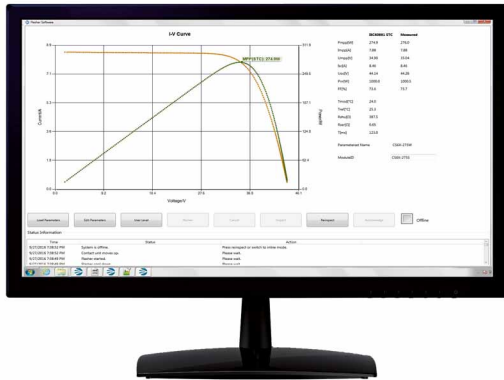
The MBJ LED sun simulator is a new innovative TÜV certified LED triple A+ sun simulator in a very compact system design. The measurement is performed sunny side down which makes the integration into the production flow easier than ever.

MBJ LED sun simulator

Future-proof innovative LED technology

Field of Application

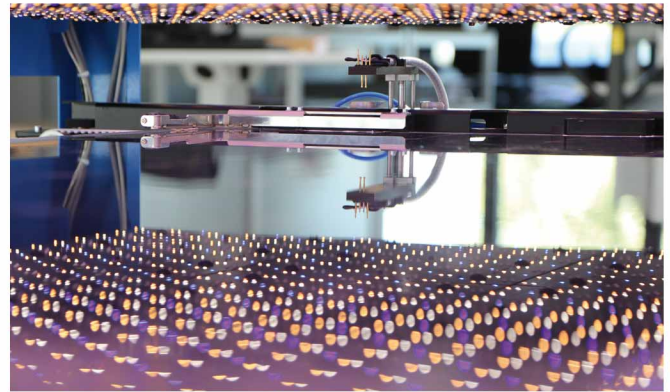
The MBJ LED sun simulator is a new, innovative TÜV certified triple A+ LED sun simulator. The measurement is performed sunny side down, which makes the integration into the production line a lot easier than it used to be.



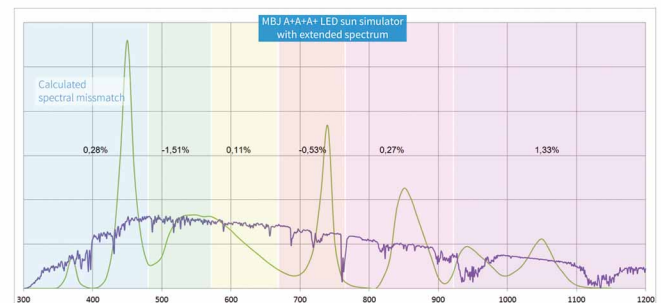
The powerful and easy to use SW

The LED technology addresses the major problems of the established XENON technology: much longer life time, longer pulse duration, substantially better stability of the light source over time. All this results in better measurement results and significantly reduced operating costs over the systems life time.

The LED sun simulator is available as long or short edge leading version with the option to add Hipot and Grounding test for framed modules.



The LED sun simulator can be equipped with standard or extended spectrum following either the IEC 60904-9 edition 2 or edition 3 standard. With a very high measurement repeatability of $< 0.1\%$ another important criteria for a measurement system is given.



Other available options are: bi-facial measurement with a second LED unit and a measurement system ready for glass-glass modules.

Model	LED sun simulator ed2	LED sun simulator ed3
Cycle time	< 20 sec	< 20 sec
Max. module size	1050 x 2050 mm	1050 x 2050 mm
Light source	LED (IEC 60904-9 edition 2)	LED (IEC 60904-9 edition 3)
Total irradiance	200 - 1000 W/m ²	200 - 1200 W/m ²
Spectrum	Class A+	Class A+
Spectrum range	400nm -1000nm	350nm -1100nm
LTI	Class A+	Class A+
Non uniformity	Class A+	Class A+
Repeatability Pmax	< 0.1 %	< 0.1 %
Flash pulse duration	up to 200 ms at 1000 W/m ²	up to 200 ms at 1000 W/m ²
Life time of LED's	> 10 million flashes at 1000 W/m ²	> 10 million flashes at 1000 W/m ²

preliminary

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