MBJ Light soaking unit

Unit or test stand

solutions to meet the needs

New possibilities for cell development

The development of new technologies brings new challenges. The MBJ Light Soaking unit is designed for new cell technologies such as perovskites.

They serve both as test benches for aging tests and for preconditioning before I/V measurements.

Technical specification	Lighting unit
Size of the LED board	380 x 380 mm
Uniformity	The uniformity of the LED board is better than +-5 % in the 220 x 220 mm area
Working distance	250 mm +/- 20 mm
LED configuration	Two channels which can be operated independently of each other. Channel 1: 450 nm and 520 nm (other on request) Channel 2: 940 nm (other on request)
Channel 1	Power approx. 1,000 W/m^2 at 50 % of the maximum continues load of the LED
Channel 2	Power approx. 1,000 W/m^2 at 50 % of the maximum continues load of the LED
Service life	@ 1,000 W/m^2 operating time of 50,000 hours
Operating modes	Continuous light and flash mode
Cooling	The LED board is attached to a water-cooled plate to ensure good heat dissipation. (The cooling device is not included)

Go to product:

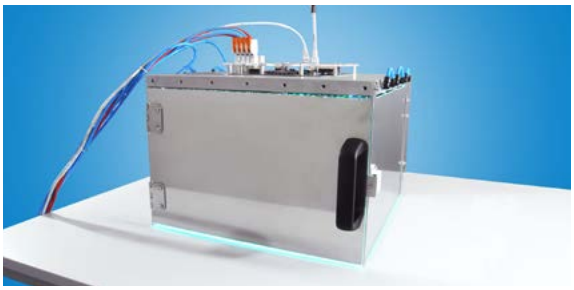
MBJ Light soaking unit

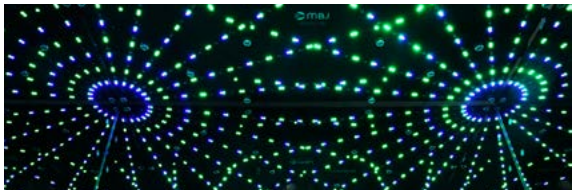
Development of new cell technologies

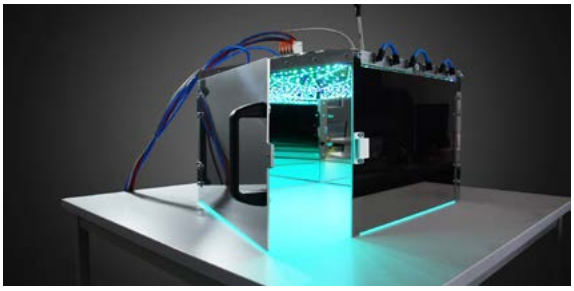
The MBJ Light Soaking unit is designed for the development of new cell technologies such as perovskites.

The light units can be used as individual units, as light sections or to build larger area lights. Optionally, a camera for visual control or photo-luminescence can be integrated into the unit.

The unit can be extended as required and can be installed in both the X and Y directions. This means that testing can be individually tailored to the project.







A clever selection of LEDs and the good design of the power sources combined with water cooling guarantee a long service life of more than 50,000 hours. The LED units can be controlled via an RS485 interface.

The arrangement of the LEDs ensures good homogeneity; intensity and homogeneity can be optimized with the included software.

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