

Mobile Lab 4.0

On-site testing of solar modules

Innovative inspection solutions



A+A+A+ certified Sun Simulator, Hi-Res EL and other testing options housed in one mobile PV-lab

- IEC 60904-9 Ed.3 certified
- Field proven design
- Fastest throughput
- Made in Germany

The Mobile Lab provides all measurement and test methods needed for an objective analysis of solar modules in the field. With this powerful device insufficient module output as well as hidden defects like micro cracks, inactive areas, hotspots and other quality issues can be identified quickly and reliable on-site.

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Field of Application

The new generation of the MBJ Mobile Lab 4.0 combines a certified IEC 60904-9 Ed.3 A+A+A+ long-pulse LED sun simulator and a high resolution electroluminescence test into one system. An automatic connection test and a diode test is also included. Infrared imaging, HiPot testing and other options can be added to the standard functionality.

The mobile units can be equipped with an air condition system, stabilizing the interior to standard test conditions allowing panel measurement as accurate as measurements from indoor labs.

All measurement data is saved automatically into a database, from which an automatically generated report compiles all the result data into one pdf document for further analysis. A very short testing time per panel allows high volume on-site throughput at the highest quality level.

The Mobile Lab 4.0 is mounted inside of a system container. The system container can be easily mounted and transported on a suitable truck or flatbed trailer to any location you need it to be. For inside the EU we offer a fitting separate trailer for the system container.

Model	Mobile Lab 4.0 container	Mobile Lab 4.0 on trailer
Module types	c-Si, PERC and thin-film up to 1050 x 2120 mm	
LED flasher	Ed.3 enhanced spectrum A+A+A+ flasher, 200-1000 W (IEC 60904-9)	
EL system	4 NIR cameras, 300 µm (~30MPixel)	
Included options	Connection and bypass diode test	
Options on request	A/C unit, IR imaging, HiPot, Label printer, Reference module and others	
Dimensions (W x H x L)	1750 x 2750 x 3650 mm	2060 x 3070 x 4500 mm

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