

On-site module testing services

Precise, independant and cost efficient

Innovative inspection services
for on-site testing



Experts for on-site testing of PV modules before and after installation

- Precise measurements
- Fastest throughput
- Detailed reporting
- Global partner network

Together with our worldwide partners we operate today 25 mobile PV labs for on-site testing. More than 1 Million panels have been tested in our systems, resulting in a unique expertise in on-site solar module testing. With our global partners we can offer you a broad range of fast and accurate testing services to secure your profit.

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Scope of service

MBJ Services together with the worldwide partner network has established a unique expertise in high volume on-site solar module sample testing.

With our 'End to End' total quality assurance approach we test solar modules from being just out of the factory until they have been in operation for some years

Testing higher volumes according to AQL 2.5 general inspection level II holds a significantly better chance to detect panels with breakage in the cell area (micro cracks). Uncovering cell breakage during 'Post Shipment Inspection' on site could be an indicator for fragile modules or improper transport and handling. In the past many modules with breakage escaped the test because of to low testing volumes.

Also important to secure the profit of a solar park is a sample test of previous installed modules before 'End of

of Warranty', to evaluate the present degradation and potential defects before the 'Final Acceptance of Completion'. Underperforming panels are often showing obvious root causes for potential claims.

We have developed the necessary technologies for on-site testing and together with our partners we have established a process to provide the testing in a highly precise but still cost efficient way. This includes an in depth evaluation and reporting in an executive summary format.

Quality testing at high throughput and comparable low cost are the major advantages when ordering testing services from MBJ Services or our worldwide partners. The detailed test reports and our extensive knowledge obtained through module testing over the last five years will help you to gain the most out of the collected data to secure your profit.

Service	On Site Mobil Lab testing	In Si-tu Electroluminescence Testing
Test method	A+A+A Flash, HighRes EL, IR, HiPot	HighRes EL
EL resolution	20 Mpixel - 300 µm/pixel	10 Mpixel - 450 µm/pixel
Test approach	loose panels before/ after installation	mounted or loose panels
IEC 60904 compliant	yes	yes
Throughput	up to 400 panels per day	up to 300 panels per night