

Intertek Mobile PV Testcenter

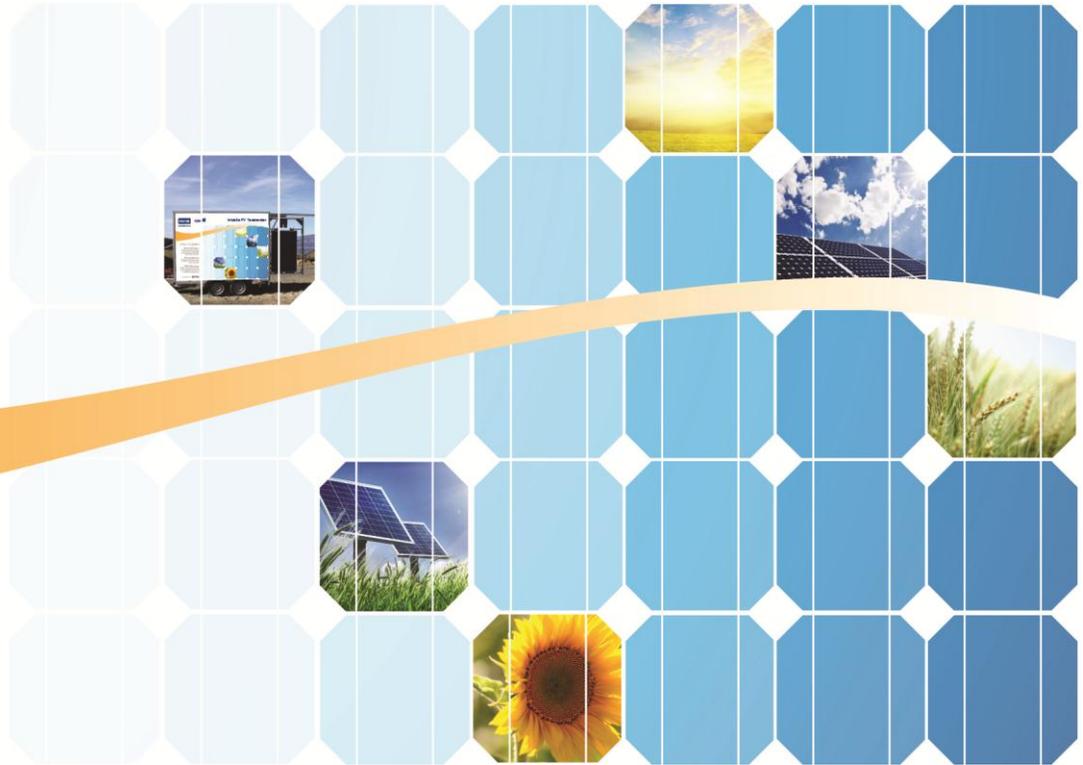
Maximize Efficiency with Minimal Risk



Valued Quality. Delivered.



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Intertek and CECET's Mobile Photovoltaic Testing Laboratory addresses a key concern for PV installations – damaged or underperforming modules. Onsite testing delivers quick results with the highest degree of accuracy, all without the risk of shipping.

To compete in the demand-driven renewable energy market, you must quickly and confidently verify PV product quality and efficacy in the field. Intertek and the Center for the Evaluation of Clean Energy Technology (CECET) offer the widest variety of services and technology available to immediately identify issues and ensure installed products deliver top-notch performance – because your weakest link is your weakest module.

Why Mobile?

- **Maximize Energy Production**
Onsite testing helps maximize your site's efficiency and energy output. Industry-leading expertise and advanced mobile lab technology bring our mobile testing on par with fixed labs. Intertek's precision results give you the confidence to make immediate decisions to improve your site.
- **Minimize Downtime**
Reduce downtime and overhead by eliminating the need to substitute panels while others are out for testing.
- **Reduce Risk**
Onsite testing eliminates the risk of impact, vibration, or environmental factors causing or aggravating microcracks during shipping to an offsite lab. No shipping after testing eliminates the risk of re-installing damaged panels.



Intertek & CECET Mobile PV Testcenter Capabilities

Our mobile inspection system provides in-depth quality analysis in the field at installation sites for electroluminescence inspection, IV-curve measurement using a AAA LED flash simulator, and infrared imaging. The accuracy of testing and measurement is designed and optimized for the requirements of onsite PV module assessment. Intertek and CECET's Mobile PV Testcenter offers immediate combined system measurement and is the best option on the market for quick PV module testing, with measurements of the same accuracy as testing done in fixed location labs. Contact us to learn more about how robust onsite testing can help you make informed, immediate decisions to maximize your site's performance.

The Only Mobile PV Testcenter in North America

Intertek and CECET are committed to the renewable energy industry and are proud to bring the first Mobile PV Testcenter to the North American marketplace.

Intertek and CECET have an exclusive agreement with lab manufacturer MBJ to ensure our Mobile PV Testcenter is one of a kind in the market.

We not only test and certify PV products, but also help measure and understand how these products perform in the field. When a single underperforming module can impact the energy output of an entire system, it is crucial to bring our technology and expertise directly to installations.

General Technical Data	
Module sizes (W x L)	Min: 590mm x 890mm / Max: 1060mm x 1980mm
Module types	Framed or frameless modules, mono-crystalline or multi-crystalline and thin film
Frame thickness	6mm to 55mm

Electroluminescence	
Resolution	~300 $\mu\text{m}/\text{pixel}$ (equivalent to ~20 MPixel for the full PV-panel)

Infrared Imaging	
Resolution	160 x 120 pixels / optional 382 x 288

General Technical Data	
Illuminated area (W x L)	1280mm x 2140mm
Non uniformity	< +/- 1%
Short term instability (STI)	< +/- 0.2%
Long term instability (LTI)	< +/- 0.2%
Spectrum	Class A+
Total irradiance	200-1000 W/m ² (configurable in 200W/m ² steps)
Current measurement	0-16A
Voltage measurement	0-100V / 0-200V (Automatic adjustment based on Uoc)

Questions about optimizing the efficiency and output of your operations? Intertek and CECET have the experience, accreditations, and capabilities you need.

With a network of 1,000+ labs and offices in over 100 countries, Intertek has a complete range of global quality, safety, performance, regulatory compliance, labelling, and advisory services for renewable energy products.

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