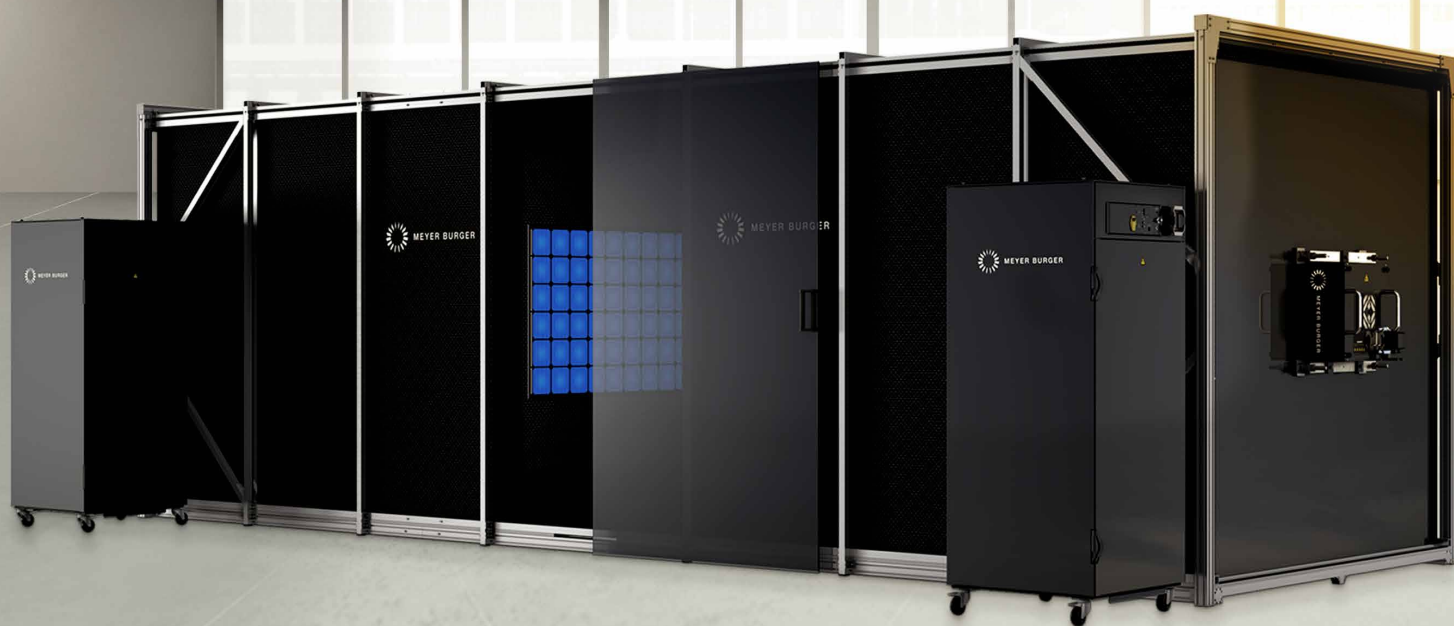




HIGH^{LIGHT} BIFI MODULE TESTER



Dual source module tester for bifacial measurements

Compatible with all cell and module technologies

Highest accuracy measurement

A+A+A+ light source

Compatible with IEC TS 60904-1-2



Best-in-class module tester

Pasan solar module testing technology demonstrates the best spectral match, uniformity and high quality temporal stability available on the market today.

The technology provides testing equipment with class A⁺A⁺A⁺ performance with positive impact on accuracy and precision.

The best-in-class equipment is used for any type of PV technology, mono- and bifacial, PERC, TOPCon and Heterojunction modules.

Worldwide proven and industry recognized

High^{LIGHT} BIFI is a module testing solution to measure bifacial modules on both module sides at the same time.

Based on the market acclaimed High^{LIGHT} equipment, the bifacial solution offers unbeatable benefits:

- Dual source flasher
- Highest testing accuracy
- Customizable parameters
- Easy handling equipment
- User friendly software

Key features

- **Two A⁺A⁺A⁺ light sources**

A⁺ uniformity spectrum and temporal stability on both sides. Compliant with IEC 60904-9 Ed 3 (draft) norm.

- **Irradiance range**

Rear side, 50 to 1200 W/m²
Front side, 200 to 1500 W/m²

- **Compatible with the use of in-situ WPVS**

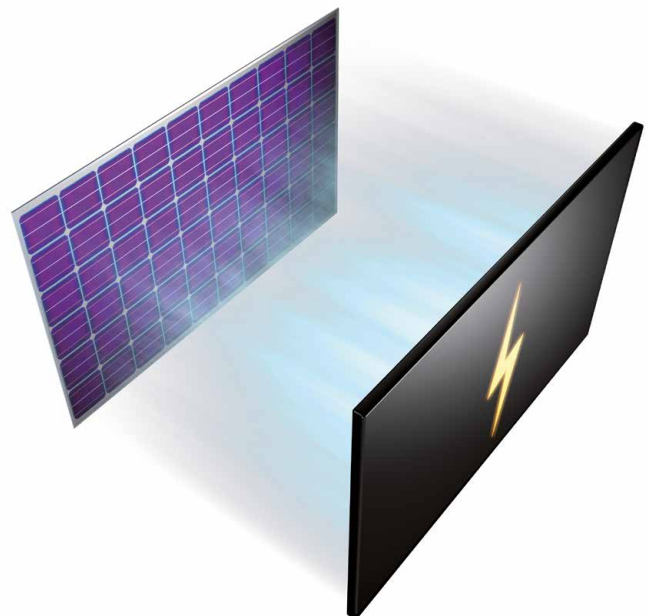
Reference cell on both sides

- **Flexible laboratory software**

Fully customizable measurement parameters

- **Dedicated module holder**

With modular light baffles for residual irradiance mitigation
Compliant with IEC TS60904-1-2 (< 3W/m² on the non-irradiated side in single illumination mode)



Worldwide industry reference

Dual light source

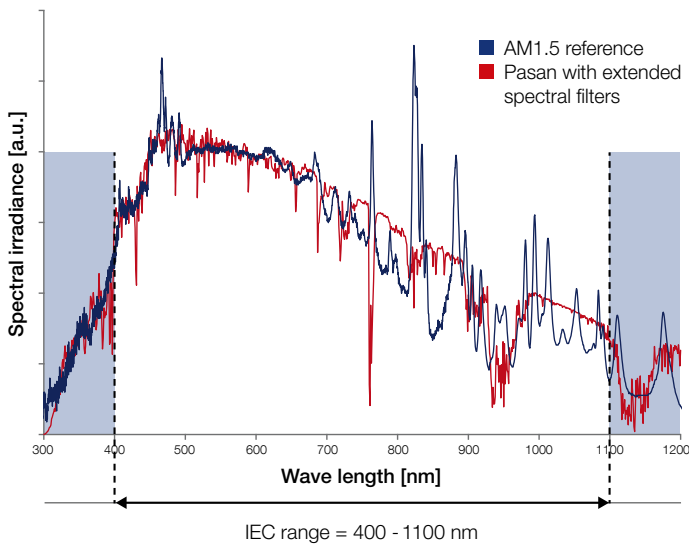
- Light source system with 2 synchronized High^{LIGHT}
- System flashes simultaneously on both bifacial module sides
- Both A+A+ light sources, 2200 x 1200 mm area

Irradiance range

- It can be tuned from 50 to 1200 W/m² on one side and from 200 to 1500 W/m² on the other side
- From 50 to 700 W/m², spectrally neutral attenuation masks permits to keep the A+A+ ratings at low irradiance.

Laboratory software

- Dedicated for R&D applications
- Highly configurable interface
- Any measurement parameter can be adjusted
- Customized sets of measurements can be predefined and played automatically
- Ability to measure using direct, reverse partial or splitted ramp
- Ability to input fully custom voltage ramps



High^{LIGHT} typical spectrum covering 300 to 1200 nm



User interface of Pasan laboratory software

Laboratory e-load

- e-load features 4 monitor cell channels
- Precise irradiance measurement on each side
- Electrical accuracy better than ± 0.1% full scale

- Voltage ranges from 1.5 to 420 V
- Current ranges from 0.15 to 50 A
- Calibration is traceable to METAS (Swiss metrology office), ISO17025 certified



High^{LIGHT} laboratory e-load back panel



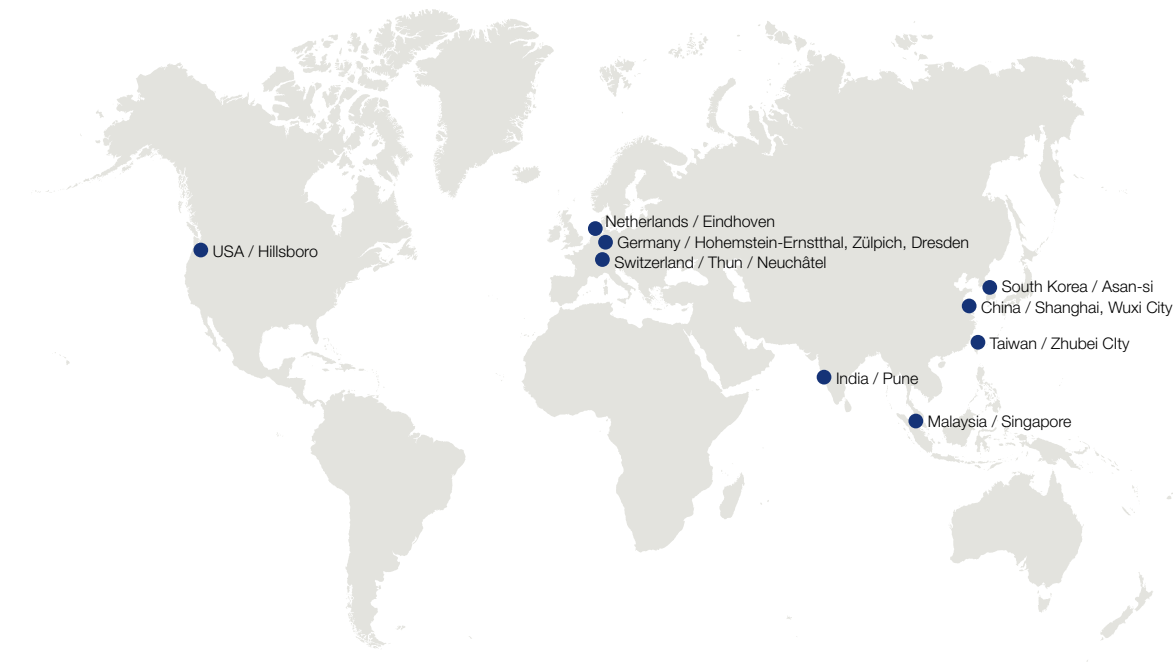
Options

- Attenuation masks, 50 to 700 W/m²
- WPVS cell interface
- Up to 4 temperature sensors

High^{LIGHT} BIFI integration characteristics

	Dark room	Flash generator	Electronic load
Dimensions [cm]	850 x 320 x 200	194 x 120 x 120	48 x 63 x 28
Weight [kg]	900	2x 540	22

Worldwide presence



Service

Pasan offers first-class service that only the original manufacturer can deliver. We take responsibility for the availability and productivity of your equipment today and tomorrow.

With a complete range of services, we support you from commissioning through production support and maintenance to life-prolonging system upgrades. All works are carried out by qualified technicians and with original service parts only – at your site or in our local service center.

Wherever you need it, our service is available in time, and of top quality.

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We reserve the right to make changes reflecting technical progress.

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