

PSS 10 HE-HS Mark II

Solar Simulator for **HIGH EFFICIENCY** cells



Optimized for high efficiency cell production lines

BERGER
Lichttechnik

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The Pulsed Solar Simulator PSS 10 HE-HS Mark II is optimized for high throughput cell production lines for high efficiency cells. In combination with the PSL HE and the software package HE hysteresis effects during measurements of high efficiency cells are eliminated.

The system can be easily integrated into automatic and semi-automatic handling systems and different types of automatic sorters.

Product Specification

- › 2 x 20 ms constant measuring time
- › Class A⁺ temporal stability at 1000 W/m² and 500 W/m² irradiance level over measuring time
- › Class A⁺ uniformity constant over lamp life time
- › Class A⁺ AM 1.5 spectrum*
- › Test area 210 x 210 mm
- › 95 cm required space over cell test area to front of lamella light source
- › up to 3600 test cycles per hour
- › Clean room suitable high performance MKP capacitors



Technical Data

Mechanical Data

Weight: approximately 130 kg

Dimensions: 940 x 560 x 600 (H x W x L in mm)

Electrical Data

Voltage: 230 V

Frequency: 50 Hz or 60 Hz

Power: 3200 W

Fuse: 16 A

General Specification

Ambient temperature: +10 °C to +35 °C

Spectrum: Class A⁺ AM 1.5 according to IEC 60904*

Uniformity: Class A⁺ according to IEC60904*

Temporal stability: Class A⁺ according to IEC60904

Irradiance: 500–1100 W/m² at a distance of 950mm to front of lamella light source

Rate of repetition: 3600 test cycles per hour

Total pulse time: 50 ms

Measurement time: 40 ms

Communication

Fiber optic cable (PFO)

Lamp Housing

Dimension: 550 x 750 (D x L in mm)

Cable length: 4 m

Weight: approximately 30 kg

* When suitably enclosed

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