

PSS 10 II HS

Solar Simulator Device



Optimized for fully automated cell production lines

BERGER
Lichttechnik

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The Pulsed Solar Simulator PSS 10 II HS is designed for high speed testing and classification of solar cells in production lines. The system provides two illumination levels (1000 W/m² and 500 W/m²) at a rate of 2400 test cycles per hour. It is easily integrated into all types of automatic sorters.

Product Specification

- › 2 x 5 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
- › 1.6 m required space over cell test area
- › Optional filter systems for Multi Junction and R&D applications
- › 2400 test cycles per hour
- › Clean room suitable high performance MKP capacitors



Technical Data

Mechanical Data

Weight: approximately 120 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: 2400 W

Fuse: 6.3 A TT

General Specification

Ambient temperature: +10 °C to +35 °C

Spectrum: Class A AM 1.5 according to IEC 60904* or adjustable

Uniformity: Class A according to IEC60904*

Temporal stability: Class A according to IEC60904

Irradiance: 500–1100 W/m² at a distance of 1.6 m including lamp

Rate of repetition: 2400 test cycles per hour

Total pulse time: 18 ms

Measurement time: 2 x 5 ms

Communication

Fiber optic cable (PFO)

Lamp Housing

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

Cable length: 8 m

Weight: approximately 30 kg

Features: centering laser

* When suitably enclosed

BERGER Lichttechnik GmbH & Co. KG

Wolfratshauer Str. 150 · D-82049 Pullach · Germany
Phone +49 (0)89 793 55 266 · Fax +49 (0)89 793 55 265
info@bergerlichttechnik.de
www.bergerlichttechnik.de