

PSS 40

Solar Simulator Device



Large Area Module tester designed for space or laboratory applications

BERGER
Lichttechnik

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Solar Simulator Device

In its 4.5 ms usable pulse time the Pulsed Solar Simulator PSS 40 can test modules of 3 by 4 meters in size. Spectrum can be adjusted from AM 0 to AM 2 or special Multi Junction requirements. Power rating (1366 W/m²) adjusted at 12-15 m distance (depending on system setup). Strong mobile steel frame setup includes height adjustable lamp support.

Product Specification

- › 4.5 ms constant pulse time
- › 1366 W/m² stable irradiance level over pulse time
- › Uniformity constant over lamp life time
- › AM 0, AM 1.5 Spectrum or adjustable from AM 0 to AM 2
- › Clean room compatible
- › Optional filter systems for Multi Junction and R&D applications
- › 120 test cycles per hour



Technical Data

Mechanical Data

Weight: 850 kg
Dimensions: 1980 x 950 x 2060 (H x W x L in mm)
Max. lamp height: 4000 mm
Housing: Steel frame on heavy duty castors

Electrical Data

Voltage: 3 x 230 V
Frequency: 50 Hz or 60 Hz
Power: 5000 W

General Specification

Ambient temperature: +10 °C to +35 °C
Spectrum: AM 0, AM 1.5 or adjustable AM 0–AM 2
Irradiance: 1366 W/m² at a distance of 12 m
1000 W/m² at a distance of 15 m
Rate of repetition: 120 test cycles per hour
Uniformity: < 1 % at 2 x 3 m*, < 2 % at 3 x 4 m*
Total pulse time: 5.5 ms
Measurement time: 4.5 ms
* at 15 m distance

Communication

Fiber optic cable (PFO)