

PSS 8-LP

Solar Simulator Device



Unit with extended pulse duration

BERGER
Lichttechnik

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The Pulsed Solar Simulator PSS 8-LP offers programmable light curves to define pulse time and intensity for lab use and R&D. This enables high precision measurements on modules requiring longer illumination times with minimal spectral change over time.

Suggested for use in tunnel system with climatic chamber system, multi filter system and distance control.

Product Specification

- › Useable measurement time up to 50 ms (at approximately 93% nominal power)
- › Total pulse time up to 50 ms at 1,200 W/m²
- › Between 120 and 30 test cycles per hour, depending on power level and pulse time
- › Class A⁺ temporal stability measuring time
- › Class A⁺ Uniformity constant over lamp life time*
- › Class A⁺ AM 1.5 Global spectrum* (over complete measurement time)
- › Maximum test area 2000 x 1400 mm
- › 3.30 m required space over module
- › Only in combination with Multi Filter Unit unit for Low Irradiance and Rs measurements or for R&D use with e.g. color or spectral filters



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 or 115 V

Frequency: 50 Hz or 60 Hz

Power: 2400 W

Fuse: 16 A TT

General Specification

Ambient temperature: +10 °C to +35 °C

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

Uniformity: Class A⁺ according IEC60904*

Temporal stability: Class A⁺ according IEC60904

Irradiance: 100–1100 W/m² at a distance of 3.3 m
Other irradiances with other distances

Rate of repetition: 120-30 test cycles per hour

Total pulse time: up to 56 ms

Measurement time: up to 50 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

Features: Centering laser

* When suitably enclosed

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