

PSL SCD

Load and Measuring Device



PC controlled load simulation and IV curve measurement for solar cells
including 1000 W/m², 500 W/m² and Dark Reverse test

BERGER
Lichttechnik

PSL SCD

Load and Measuring Device

The PSL SCD is optimized for fully automated production lines. It records three complete IV curves at 1000 W/m², 500 W/m² and Dark Reverse in one measurement cycle. Options are available to enhance functionality for production.

A customized "Plug&Play" manual test station is also offered.

Product Specification

- › Full passive load simulation
- › Fully integrated current source for optional thermal imaging systems
- › Serial resistance measurement via two-step irradiance
- › 3 synchronously triggered precision A/D converters for I, V and Ref.
- › Data acquisition time below 150 ms
- › Can be easily integrated into a manufacturing environment
- › Password protected setup and calibration
- › Connection via a fiber optic converter to a RS232 COM port
- › Software package includes classification, binning and handling interface
- › Database and data tracking systems according to customer specification



Technical Data

Mechanical Data

Weight: approximately 4.5 kg

Dimensions: 120 x 260 x 330 (H x W x L in mm)

Electrical Data

Voltage: 12 V DC

(external mains adaptor 100–240 V, 50/60 Hz)

Power: 18 W

Measurement

Measurement range V: 1 V *

Measurement range I: 16 A *

Measurement range Ref.: 80 mV *

A/D Converters: 3 x 12 Bit unipolar

Max. number of measuring points: 512

Accuracy per range: < 0.1 %

Reverse range V: 15 V

Reverse range I: 12 A

* measuring range can be adjusted to customer request

Communication

Fiber optic cable (PFO)

19200 baud, 1 stop bit, no parity

Options

IR-Imager and analyzing software

EL-Imaging and analyzing software

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