

PSL DF-3 / PSL DF-3 LT

Measuring Device



Processor controlled bus bar resistance test of a cell Dark Forward Characteristic measurement (PSL DF only)

BERGER
Lichttechnik

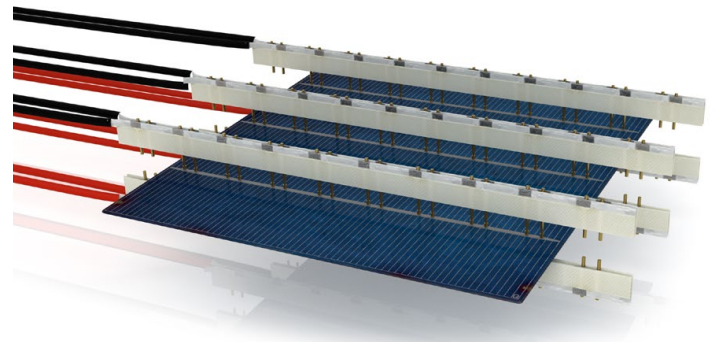
PSL DF-3 / PSL DF-3 LT

Measuring Device

The PSL DF-3 / PSL DF-3 LT is optimized for fully automated production lines. It records the resistance between the bus bars of a cell and records the Dark Forward curve. It also is usable as power source for fast EL test by InGaAs imagers.

Product Specification

- › Print resistance measurement
busbar 1-busbar 2 and busbar 2-busbar 3
- › Dark Forward I-V curve (PSL DF-3 only)
- › Short circuit detection for the probing unit
- › 3 synchronously triggered precision A/D converters
- › EL imaging cell power source during dark forward test
- › 4-wire system for separate current source and voltage measuring
- › Data acquisition time below 150 ms;
no impact on the cycle time of the production line
- › Can be easily integrated into a manufacturing environment
- › Password protected setup and calibration
- › Connections via a fiber optic converter to a RS232 COM port
- › Works only in conjunction with the BERGER PSL SCD measuring device



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

Dark Forward Voltage range: max 1 V

Dark Forward Current range: -2/-4/-10 A

Frontside Resistance Measurement: 1–1000 mΩ

Backside Resistance Measurement: 1–1000 mΩ

A/D Converters: 3 x 12 Bit unipolar

Communication

Fiber optic cable (PFO)

19200 baud, 1 stop bit, no parity