

Polarized Light Source PLS-100

The PLS-100 is a light source with well defined polarization. It features stable high output power while maintaining a high polarization extinction ratio (PER) of 45 dB (typ.). Combining PLS-100 and PEM-340 (Polarization Extinction Ratio Meter) provides an optimized system for PER measurement of polarization maintaining (PM) fiber optic devices in both R&D and production environments.



Features

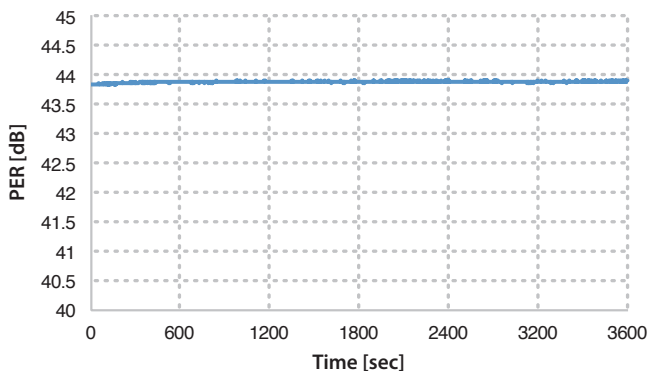
- ▶ Polarization extinction ratio, up to 45 dB (typ.)
- ▶ High output power and power stability
- ▶ Wavelength range 1310 ± 20 nm or 1550 ± 20 nm

Applications

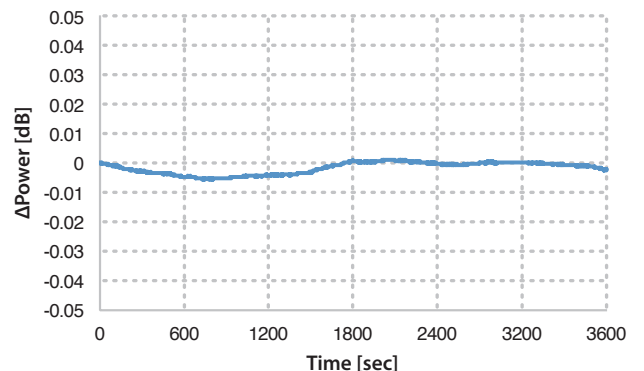
- ▶ Alignment of polarization axis for optical devices
- ▶ Connectorized PMF patch cord evaluation

Measurement Data

PER stability



Power stability



SANTEC LIGHT SOURCE

Specifications

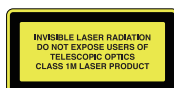
| Parameter | Unit | Specification | Notes |
|---------------------------------------|------|------------------------|-----------------------------------|
| Wavelength Range | nm | 1310 ± 20 or 1550 ± 20 | |
| Polarization Extinction Ratio (PER) | dB | 40 | 45 dB typically |
| PER Stability @ 1hour ^{*1} | dB | ± 0.5 | ± 0.1 typically |
| Output Power | dBm | 0 | +3 dBm typically |
| Power Stability @ 1hour ^{*1} | dB | < ± 0.1 | ± 0.05 typically |
| Power Variation by changing angle | dB | ± 0.2 | |
| Linewidth (FWHM) ^{*2} | nm | > 20 | |
| Optical Connector | - | FC or SC | |
| Connector Polish | - | SPC | |
| Polarized Axis Adjustment | deg | 2 | Fine adjustment |
| | deg | 180 | Coarse adjustment |
| Operating Temperature | °C | 15 to 35 | |
| Size (W) x (D) x (H) | mm | 210 x 350 x 135 | except for the protruding portion |
| Weight | kg | 3.5 | |
| Supply Voltage | V | AC100-240 ± 10 % | |
| Frequency | Hz | 50/60 | |

*: All measurements are taken after 60 min warm up and at stable room temperature.

*1: For period of 1 hour, within ± 0.5 °C.

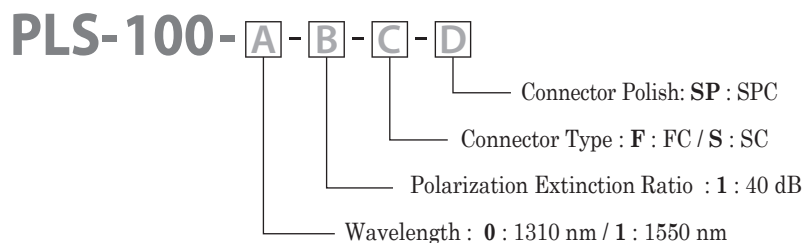
*2: Measured at Full Width Half Maximum

Laser safety information



This product is classified class 1M laser product according to IEC 60825-1 (2007). This product complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50 dated June 24, 2007.

Ordering Code



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