

PLS-100

Polarized Light Source



Features

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

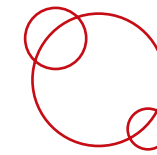


Applications

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

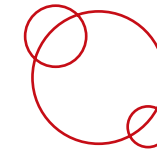
Product Overview

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.



Adjustable Polarization Axis

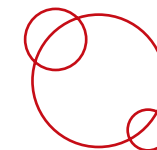
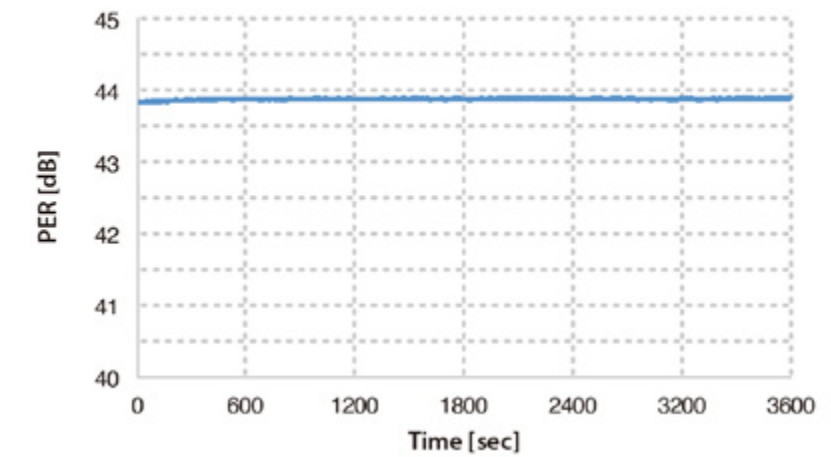
Output polarization adjustable between 0 and 180°



High Polarization Extinction Ratio

PER up to 45 dB

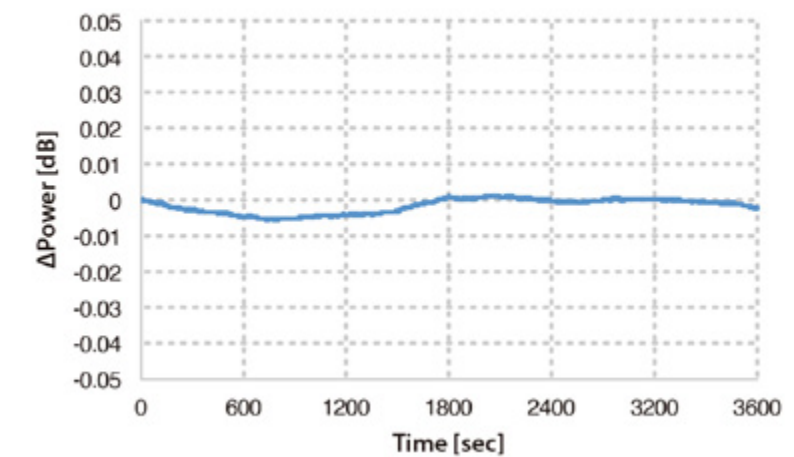
PER Stability



High Power Stability

Output power > 0 dBm and Stability of < 0.1dB over 1 hour

Power Stability



PLS Optical / Electrical Specifications

Parameter	Unit	Performance	
Wavelength and Optical Power Characteristics			
Wavelength Range	nm	1310 ± 20 or 1550 ± 20	
Polarization Extinction Ratio (PER)	dB	40 (45 (typ.))	
PER Stability @ 1 hour ¹	dB	± 0.5 (± 0.1 (typ.))	
Output Power	dBm	0 (+3 (typ.))	
Power Stability @ 1 hour ¹	dB	< ± 0.1 (± 0.05 (typ.))	
Power Variation by Changing Angle	dB	± 0.2	
Linewidth (FWHM) ²	nm	> 20	
Interface			
Optical Connector	-	FC or SC	
Connector Polish	-	SPC	
Polarized Axis Adjustment	Fine Adjustment	deg	2
	Coarse Adjustment	deg	180
Environmental Conditions and others			
Operating Temperature	°C	15 to 35	
Dimensions (W) x (D) x (H) ³	mm	210 x 350 x 135	
Weight	kg	3.5	
Supply Voltage	V	AC 100 - 240 ± 10 %	
Frequency	Hz	50 / 60	

Notes:

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.

³ Except for the protruding portion.

Laser Safety Information

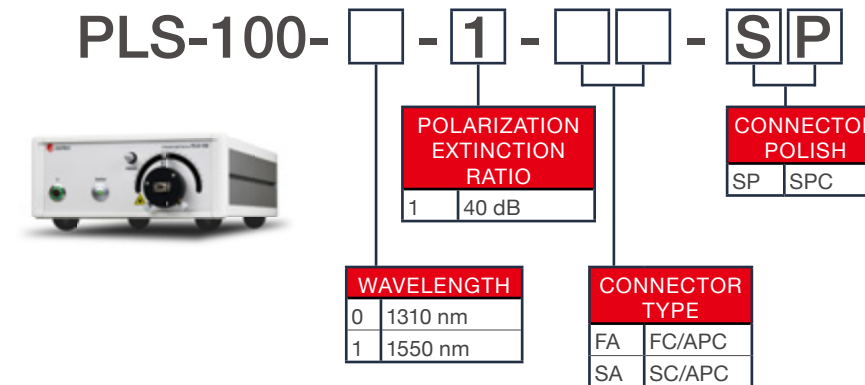


This product is classified class 1M laser product according to IEC 60825-1 (2014).

This product complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 56 dated May 8, 2019.

Ordering Scheme & Instructions

1. Configure PLS Polarized Light Source



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