

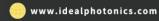
850nm 15mW Benchtop Polarization-Maintaining SLD Light Source



Product Description

Idealphotonics' Ultra-Width Series 850nm High-Stability Single-Mode Pump Light Source utilizes a TEC wavelength-stabilized single-mode semiconductor laser, offering wavelength stability and high output power. Based on an advanced microprocessor control system, combined with high-precision ATC and ACC (APC) control circuits, this light source achieves highly stable laser output while ensuring quick and intuitive operation. We can also provide corresponding communication interfaces and control software based on user requirements for computer control. This light source features a Turn-Key pump laser protection function to effectively prevent damage due to user error.









Power can be coarsely adjusted (in 1mW steps) or finely tuned (in 0.1mW steps). LD-PD's 850nm single-mode pump light source is a highly integrated benchtop system light source, equipped with a high-definition LCD display, continuously adjustable output power, and synchronous display of current and voltage, making it ideal for experimental scientific research and production testing. Additionally, the company can provide modular packaging tailored to user needs for easy system integration.

Part Number

LP-SLD-850-B-15-40-PM

Product features

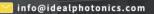
Single-mode high-power output: Up to 25mW、 Spectral width up to 80nm、 ASE light isolation protection design、 Stable and continuously adjustable output power、 LCD status display、 High-precision ACC and ATC control circuits、 Optional built-in isolator

Application area

Fiber Optic Gyroscopes Optical Coherence Testing Test and Measurement Nonlinear Effect Studies

Parameters

Parameters	Unit	Specs		
		Min.	Тур.	Max.
PN#		LP-SLD-850-B LP-SLD-850-M*		
Output Power	mW	3	-	35
Peak Operating Wavelength	nm	830	850	870
Spectral Width (FWHM)	nm	25	40	80
Output Side Mode Suppression Ratio (SMSR)	dB	20	-	-
Output Isolation	dB	-	30	-









Output Power Stability (15 minutes)	%	-	±0.5	± 1.0	
Output Power Stability (8 hours)	%	-	±1.0	±2.0	
Output Power Adjustable Range	%	0	-	100	
Output Power Adjustment Mode		Coarse/Fine Adjustment			
TEC Stability	$^{\circ}\!\mathbb{C}$	-	\pm 0.1	±0.2	
TEC Operating Range	${\mathbb C}$	25	30	35	
Operating Voltage	VAC	100	220	240	
Electrical Power Consumption	W	-	-	30	
Operating Temperature	$^{\circ}$	0	-	50	
Storage Temperature	$^{\circ}$	-40	-	85	
Output Fiber Type		SMF-28E+			
Output Fiber Length	m	>1			
Output Fiber Connector		FC/APC, other models optional			
Dimensions	mm	$340(L) \times 240(W) \times 100(H)$ Benchtop 150(L) \times 125(W) \times 25(H) Module			

Technical Notes:

Remote software control optional

Output power customizable

Peak operating wavelength can be specified

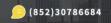
Isolation refers to protection against ASE light

Power stability tested at 25° C after 30-minute warm-up

Maximum power consumption refers to overall consumption under extreme conditions

Test spectrogram

Test Conditions: Temperature: 20° C; Test Current: 250mA

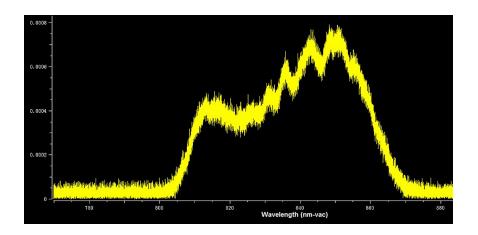




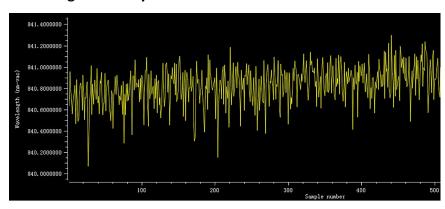






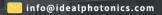


Wavelength Stability



Beam Quality

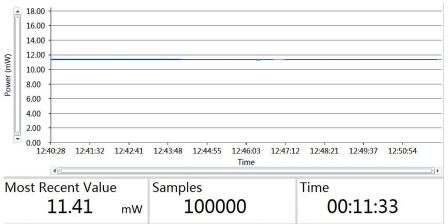




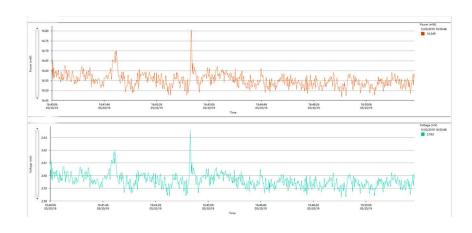




Power Test Table (@ 250mA) & Power Stability



SLD light source power stability test curve



Ordering info

Ordering Information

LP-SLD-850-PG-OPP-BWD-FT

PG:B: Benchtop M: Module

OPP: Output power in mW (e.g., 10 = 10mW, 50 = 50mW)

BWD:

25: 25nm

40: 40nm

50: 50nm

60: 60nm

80: 80nm

100: 100nm

FT:Fiber type

SM = HI780

PM = PM850





