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# 850nm 3mW Benchtop Single-Mode 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). 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-3-40-SM



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## • Product features

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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						
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	°C	-	±0.1	±0.2		
TEC Operating Range	°C	25	30	35		
Operating Voltage	VAC	100	220	240		
Electrical Power Consumption	W	-	-	30		
Operating Temperature	°C	0	-	50		
Storage Temperature	°C	-40	-	85		



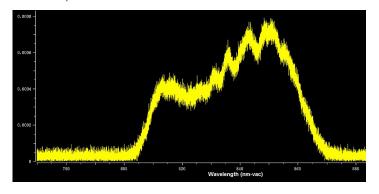


			www.idealphotonics.com		
	Output Fiber Type		SMF-28E+		
	Output Fiber Length	m	>1		
	Output Fiber Connector		FC/APC, other models optional		
			340(L) × 240(W) × 100(H)		
	Dimensions	mm	Benchtop		
			150(L) × 125(W) × 25(H) Module		

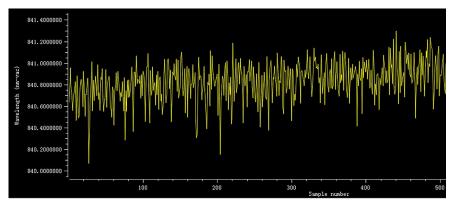
Technical Notes:

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



#### Wavelength Stability



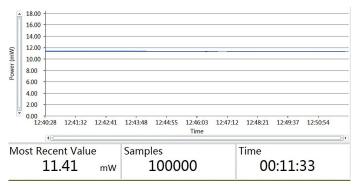
#### Beam Quality







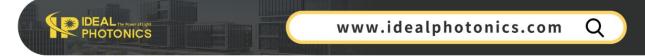
Power Test Table (@ 250mA) & Power Stability



SLD light source power stability test curve



Ordering info Ordering Information Model: 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: SM = HI780 PM = PM850

