1310nm 3mW Benchtop

Polarization-Maintaining SLD Light Source

Product Description

IdealPhotonics' Ultra-Width series 1310nm high-stability single-mode pump source utilizes a TEC-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, it ensures highly stable laser output while providing quick and intuitive operation. We can also offer corresponding communication interfaces and control software based on user requirements

to enable computer control. This light source features a Turn-Key pump laser protection function to effectively prevent user errors. It supports coarse power adjustment (1mW steps) and fine power adjustment (0.1mW steps). 1310nm single-mode pump source is a highly integrated desktop system light source with a high-definition LCD display, continuously adjustable output power, and synchronous current and voltage display, making it ideal for experimental scientific research and production testing. Additionally, the company can provide modular packaging based on user needs for easy system integration.

Product features

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

Part Number

MP-SLDS-1310-3-40-PM-B

Application area

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

Core parameters

Center Wavelength	Output Power	Spectral Width
1310nm	3mW	40nm

General Parameters

Parameters

Parameters	Unit	Specs		
		Min.	Typ.	Max.
Output Power[1]	mW	3	-	25
Peak Operating Wavelength[2]	nm	1290	1310	1330
Spectral Width (FWHM)	nm	25	40	80
Output Side Mode Suppression Ratio (SMSR)	dB	20	-	-
Output Isolation[3]	dB	-	30	-
Output Power Stability (15 minutes)[4]	%	-	±0.5	± 1.0
Output Power Stability (8 hours)[4]	%	-	±1.0	±2.0
Output Power Adjustable Range	%	0	-	100
Output Power Adjustment Mode		Coarse/Fine Adjustment		
TEC Stability	℃	-	±0.1	±0.2
TEC Operating Range	℃	25	30	35
Operating Voltage	VAC	100	220	240

Parameters	Unit	Specs		
		Min.	Typ.	Max.
Electrical Power Consumption[5]	W	-	-	30
Operating Temperature	℃	0	-	50
Storage Temperature	℃	-40	-	85
Output Fiber Type		SMF-28E+		
Output Fiber Length	m	>1		
Output Fiber Connector		FC/APC, other models optional		
Dimensions	mm	340(L) × 240(W) × 100(H) Benchtop		
		150(L) × 125(W) × 25(H) Module		

Technical Notes:

Remote software control optional

1.Output power customizable

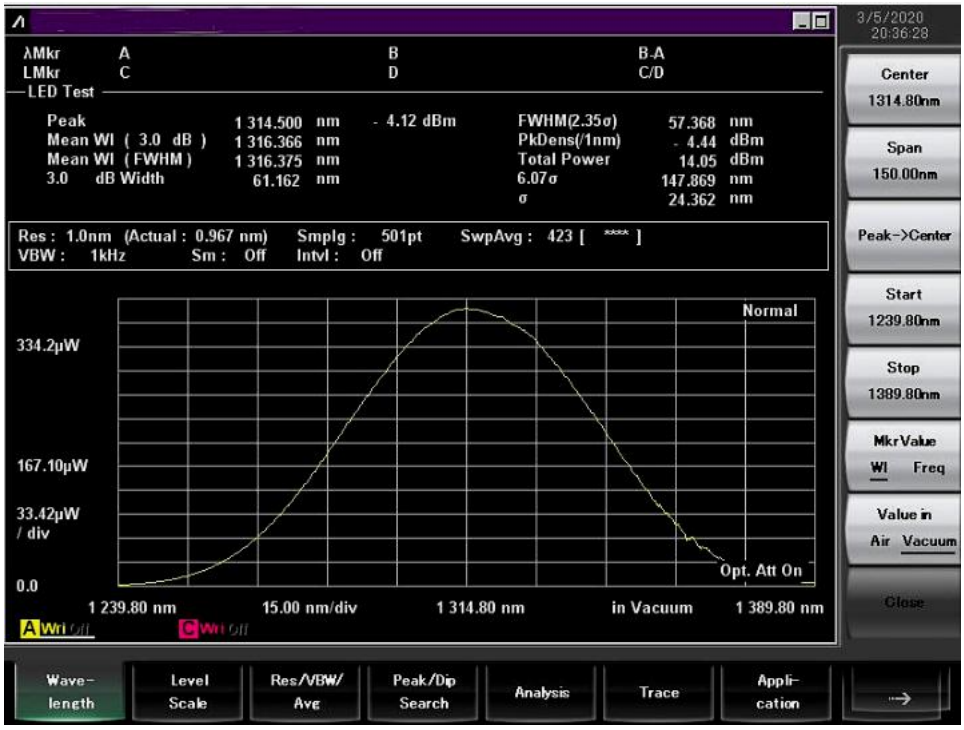
2.Peak operating wavelength can be specified

3.Isolation refers to protection against ASE light

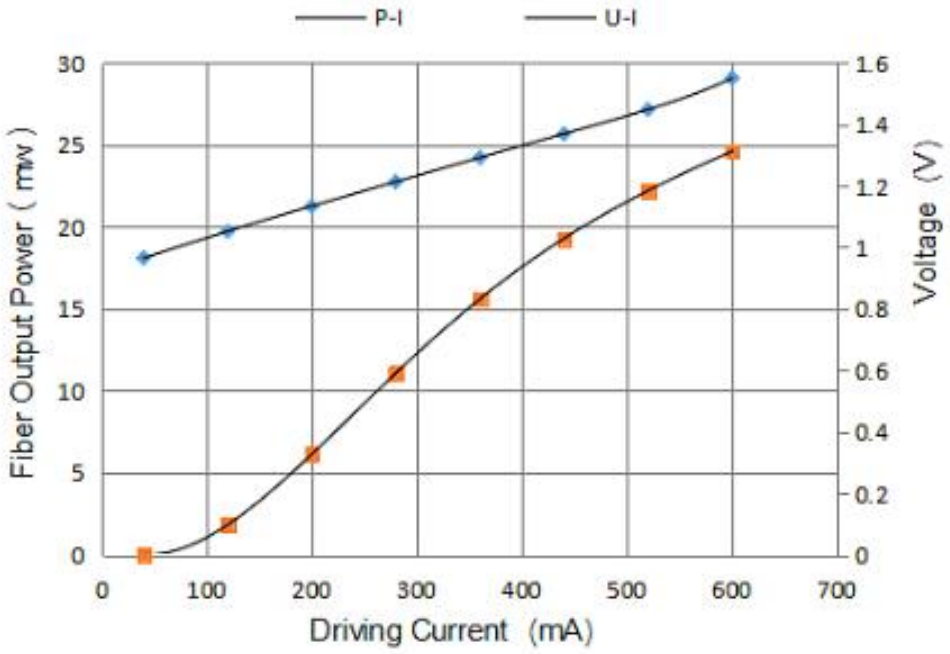
4.Power stability tested at 25°C after 30-minute warm-up

5.Maximum power consumption refers to overall consumption under extreme conditions

Spectrum

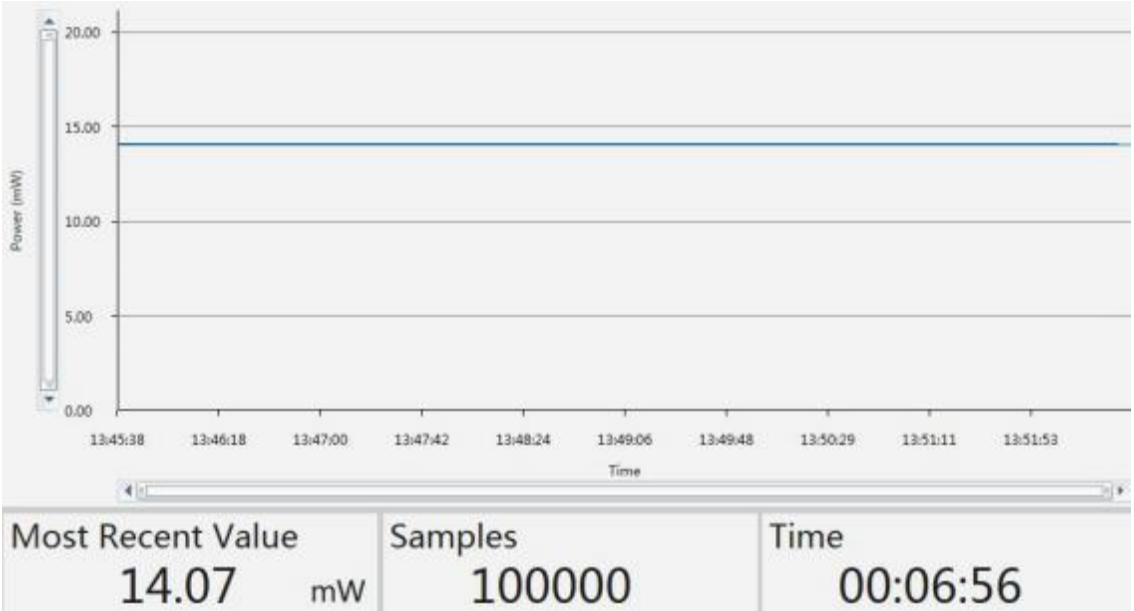


L-I-V Curve



Beam Quality

Power Test Table (@ 325mA)



SLD Light source power stability test curve

Ordering info

Model: MP-SLDS-1310-PG-

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 = SMF-28E+

PM = PM1310