1060nm SLD Benchtop Light Source 5mW

Product Description

Idealphotonics' modular laser control is based on an advanced microprocessor control system, combined with high-precision ATC and ACC (APC) control circuits to achieve highly stable laser output, while ensuring that the light source is quick and intuitive to operate. We can also provide corresponding communication interfaces and control software according to user requirements to achieve computer control. This light source uses a one-key recovery function (Run/Stop button) to effectively help customers return to the previous working state. This is a highly integrated modular system light source that uses PC-side software intelligent control. Customers can set the required working temperature and current according to their needs. It is very suitable for

experimental scientific research and production testing. In addition, we need to modulate the laser in some application fields. We have connected two external modulation ports, one for high frequency and one for low frequency, to better meet customers' needs for multiple uses of one machine.

- ## Product features

Support one-key restore function (no need to restart and preheat)、 Software remote control, intelligent control 、 Stable output power, continuously adjustable、 Compact structure、 High-precision ACC and ATC control circuit、 Built-in high and low modulation bandwidth BNC interface

- ## Part Number

MP-SLDS-1060-5-60-PM-B

- ## Application area

Fiber optic transmission system、 Fiber optic gyroscope、 Fiber optic sensor、 Optical coherence tomography、 Test light source

- ## Core parameters

Center Wavelength	Output Power	Spectral Width
1060nm	5mW	60nm

• General Parameters

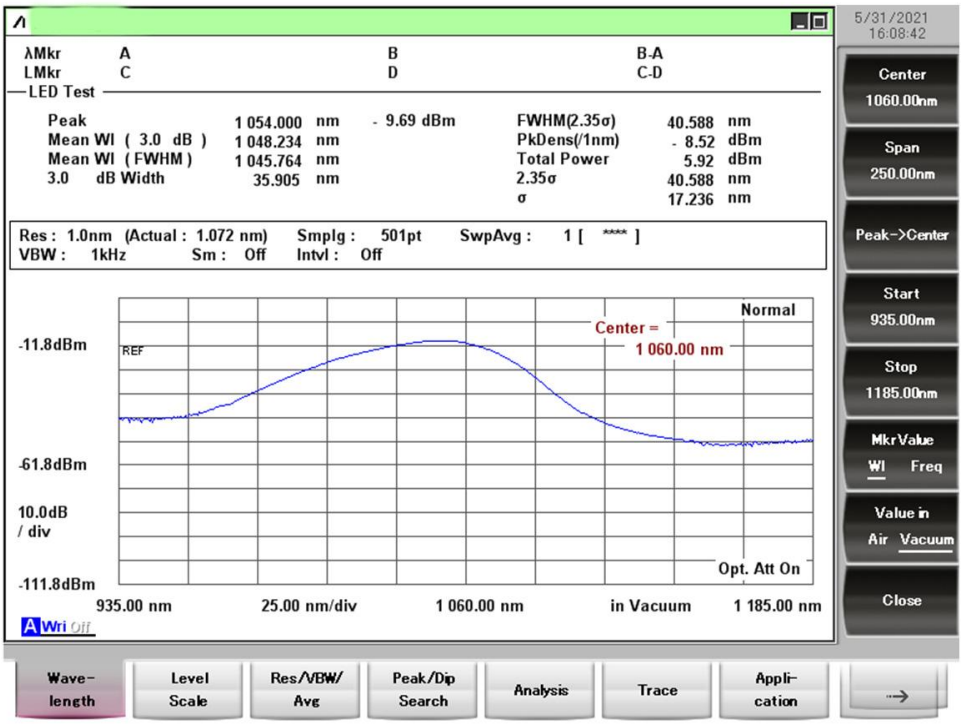
Driver Parameters

characteristic	Min.	Max.	Unit	Note
Power supply voltage	100	230	VAC	Mains electricity
power	5	20	W	
Laser driver current	0	128	mA	patch cord can choose
		266		
		590		
Laser driver voltage	0	3.1	V	
Response frequency	0	15	MHz	@250mA
Temperature control range	0	5	℃	-3db
TEC output current	-1.5	1.5	A	
TEC output voltage	-4.4	+4.4	V	
Analog input (low frequency)	-2.5	2.5	V	
Analog input (High frequency)	-2.5	2.5	V	
PDmonitoring range	0	2	mA	

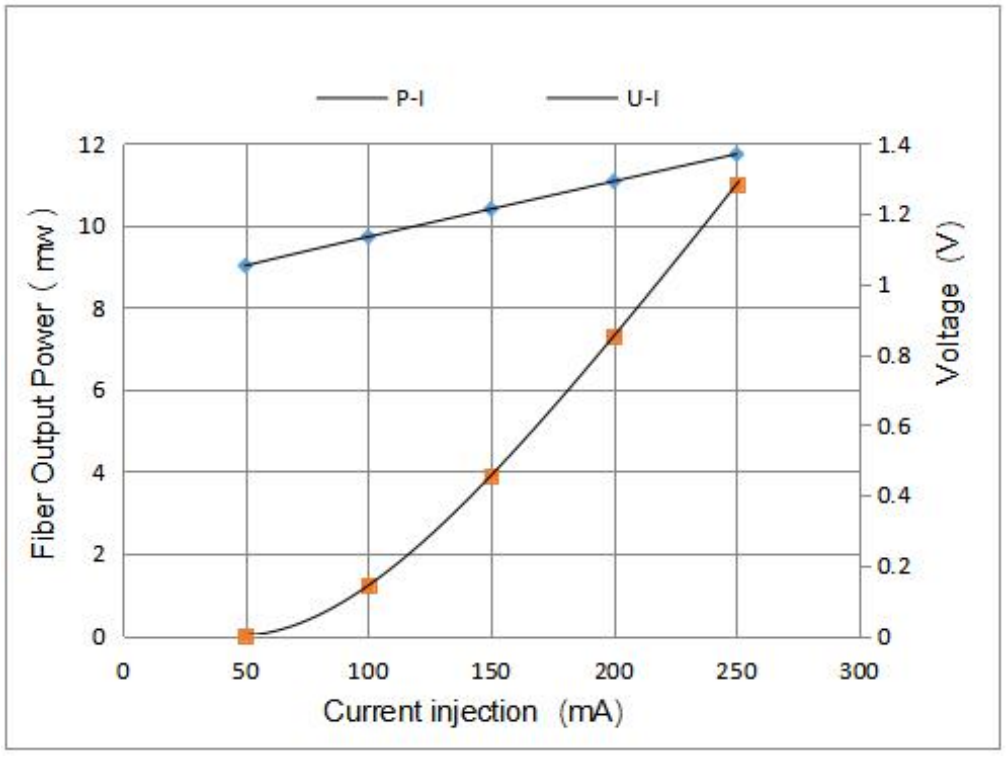
Laser parameters

Parameters	Symbol	Min.	Typical value	Max.	Unit
Wavelength	λ		1060		nm
Spectral width	Δλ	50	60	70	nm
Threshold current	I_{th}		30	40	mA
Operating current	I_{op}		200	300	mA
Output power	P_f	3	5	10	mW
Polarization extinction ratio	PER	17	20		dB
Fiber type	HI1060 / PM980				
Operating voltage	V_f		1.8	2.5	V
Thermistor	R_T	9.5	10	10.5	KΩ
Connector type	FC/APC				

Test spectrum



Power curve



Control software interface