

910nm High-Power Benchtop Single-Mode Pump FBG Stabilized Wavelength Light Source



● Product Description

Idealphotonics' modular laser control is based on an advanced microprocessor control system, combined with high-precision ATC and ACC (APC) control circuits, achieving highly stable laser output while ensuring quick and intuitive operation of the light source. We can also provide corresponding communication interfaces and control software based on user requirements to enable computer control. This light source features a



one-key recovery function (Run/Stop button), effectively helping users return to their previous working state. This is a highly integrated modular system light source, utilizing PC software for intelligent control, allowing customers to set the desired operating temperature and current according to their needs. It is highly suitable for experimental scientific research and production testing. Additionally, for applications requiring laser modulation, we have included two external modulation ports—one for high frequency and one for low frequency—to better meet customers' needs for a versatile, all-in-one solution.

● 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-FP-910-100-B-0-SA-FBG

● Application area

Laser sensor、 Pump source、 Test and measurement

● Core parameters

Center Wavelength	Output Power	Connector Type
910nm	100mW	FC/APC

● General Parameters

Driver parameters:

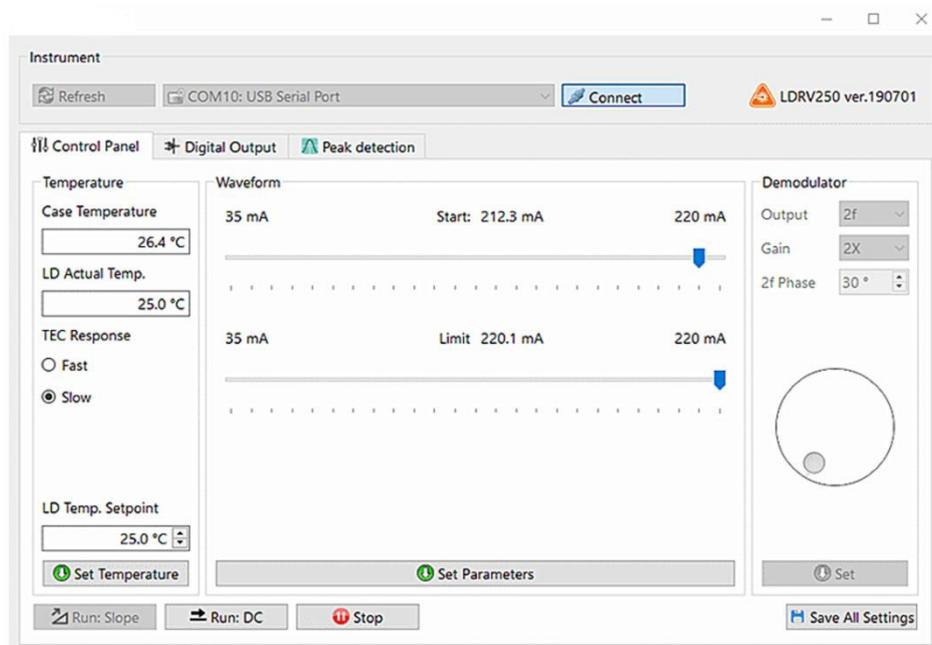
Characteristics	Min.	Max.	Unit	Note
Power supply voltage	100	230	VAC	Mains electricity
Power	5	20	W	
Laser drive current	0	128 266 590	mA	Patch cord optional
Laser drive voltage	0	3.1	V	@250mA
Response frequency	0	15	MHz	-3db
Temperature control range	0	5	°C	
TEC output current	-1.5	1.5	A	
TEC output voltage	-4.4	+4.4	V	
Analog input (low frequency)	-2.5	2.5	V	
Analog input (high frequency)	-2.5	2.5	V	
PD monitoring range	0	2	mA	



Laser parameters:

Parameters	Unit	Value
Laser wavelength	nm	910±1
Power	mW	100
FWHM	nm	0.42
Operating current	mA	500
Threshold current	mA	70
Operating voltage	v	1.6
Thermistor	Ω	10000

Control software interface:

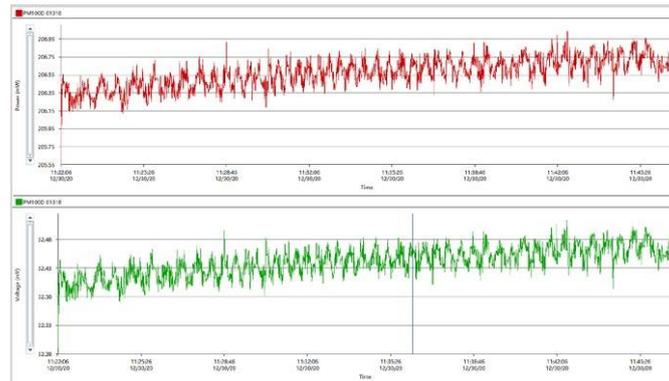




Spectrum:



Power stability curve:



Order Info:

MP-FP-915-100-B-0-SA-FBG

Working wavelength:

910: 910nm

915: 915nm