

1908nm High Power CW Fiber Laser



Product Description:

Connet 2.0um (GHz) series of high power CW fiber lasers adopt the Master Oscillator Power-Amplifier (MOPA) structure to achieve the high power output. The output power can be up to 100W with the excellent output beam quality. The generally adopted pumps are the semiconductor or fiber lasers in the bands of 793nm and 1570nm. The output polarization can be linear or random. This laser is suitable for the applications of device testing, medical treatment, remote sensing, LiDAR and mid-infrared pumping, etc. with the typical operating wavelengths of 1908nm, 1940nm, 1950nm, 2004nm and 2050nm, etc.

The 2.0um (GHz) series of high power CW fiber lasers employ the microprocessor-based control system with stable performance and maintenance-free operation. The benchtop laser can display the output power, the temperature and other working status in real time through the LCD on the front panel, and also can provide the alarm information in time. This laser system is with clear interface and easy operation.

Applications:

- Medical treatment
- Mid-infrared pump source
- LiDAR
- Device testing
- Plastic material processing
- Nonlinear effect study
- Other scientific research

Features:

- High output power: up to 100W
- Excellent beam quality
- Stable and reliable performance
- Linear polarization output optional
- Narrow spectral width
- All-fiber design



Specifications:

Parameter	Unit	Specification		
		Min	Typ.	Max
Part no.		VFLS-1908-B-HP		
Center wavelength	nm	1908nm +/-1nm		
Output power	W	-	-	100
Operation mode		CW		
Beam quality	M ²	-	1.3	1.7
Spectral width (FWHM)	nm	-	-	0.5
Side-mode Suppression Ratio (SMSR)	dB	20	30	-
Polarization		Random (Linear Polarization Optional)		
PER (PM Output)	dB	17	-	-
Output power stability ¹ (8hrs)	%	-	±1	±2
Output isolator		N/A		
Output power tunable range	%	30	-	100
Operating temperature	°C	0	-	+35
Storage temperature	°C	-40	-	+85
Supply voltage	V _{AC}	100-240		
Cooling mode		Water-cooling		
Output fiber type		BD-G25/250-11FA		
Output fiber length	m	>0.5		
Optical connector		FC/APC, Endcap or Collimator (other optional)		
Dimension	mm	510x480x150		

Specifications:

- 1. The output power stability is measured under 25°C after 30 minutes' warm-up.

Ordering Information:

- VFLS-1908-B-HP-<PW>-I-FA
- VFLP-1908-B-HP-<PW>-I-FA
- S: SM output, P: PM output
- PW: Output power, 50-50W, 100-100W
- I: Output isolator, 0-None, 1-Yes
- FA: FC/APC, CoL: Collimator, FE: Endcap