

## 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 <sup>2</sup>  | -   | 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 <sup>1</sup> (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 <sub>AC</sub> | 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