

## 1.0um Single-mode CW Fiber Laser (0.2-20W)

### Product Description:

The 1.0um single-mode CW fiber laser of Connet is a highly integrated continuous Yb-doped fiber laser system with high power output. These fiber lasers employ the integrated design of all-fiber structure and use double cladding fiber pumping technology to realize the high-performance output laser. The output power can be up to 20W and the near diffraction-limited beam quality can be achieved at the same time. The lasers can be widely used in the areas of scientific research, experimental teaching and device testing.



Connet 1.0um single-mode CW fiber laser employs the control system based on microprocessor which has stable property, long lifetime and free maintenance. With a clear interface and easy control, the LCD on the front panel of the benchtop system can give a real-time display of the operating state of the output power and temperature. The LCD can also offer the warning messages. Besides, the modular package is also available upon request for the convenience of system integration.

### Applications:

- Test and measurement
- Scientific research
- Spectroscopy analysis
- Other lab applications

### Features:

- High output power: up to 20W
- Excellent beam quality
- Highly stable and reliable performance
- Single-mode output, PM optional



**Specifications:**

Parameter	Unit	Specification		
		Min	Typ.	Max
Part no.		VFLS-1064-B/M-MP		
Center wavelength	nm	-	1064	-
Output power <sup>1</sup>	W	0.2	-	20
Output power adjustable range	%	10	-	100
Spectral width (FWHM) <sup>2</sup>	nm	-	-	1
Side-mode Suppression Ratio (SMSR)	dB	35	-	-
Beam quality	M <sup>2</sup>	<1.2		
Operation mode		CW		
Polarization		Random (Linear Polarization Optional)		
Output power stability (15mins) <sup>3</sup>	%	-	±0.5	±1.0
Output power stability (8hrs) <sup>3</sup>	%	-	±1	±2
Output isolation	dB	35	-	-
Return loss	dB	40	-	-
Operating temperature (Module)	°C	-35	-	65
Operating temperature (Benchtop)	°C	0	-	50
Storage temperature	°C	-40	-	85
Operating voltage (Module)	V <sub>DC</sub>	12	-	24
Operating voltage (Benchtop)	V <sub>AC</sub>	100	-	240
Output fiber type <sup>4</sup>		LMA Fiber		
Output fiber length	m	> 1		
Optical connector		FC/APC or Collimator (other optional)		
Dimension	mm	200x135x60 (Module) 430x450x105 (Benchtop)		

**Specifications:**

- Output power is optional with the typical output power of 0.2W, 1W, 5W, 10W and 20W, etc.
- Spectral width on request.
- The output power stability is measured under 25°C after 30 minutes' warm-up.
- Polarization-maintaining fiber is optional.

**Ordering Information:**

- VFLS-1064-<P>-MP-<PW>-<SP>
- P: Package, B-Benchtop, M-Module
- PW: Output power in W, 0.2-0.2W, 20-20W
- SP: Output isolation , 1-Yes, 0-None