



## VENUS SERIES

VFLS-1550-B

### Features:

- Fiber optical communication
- Free-space communication
- Fiber optical sensing
- Test and measurement
- Science research

### Applications:

- High output power: up to 10W
- Excellent beam quality
- High Stability and reliable performance
- All-fiber structure
- Single-mode output, PM optional

## 1.5um Single-Mode CW Fiber Lasers

The 1.5um CW fiber lasers of Connet Laser are eye-safe high power fiber lasers. These fiber lasers employ integrated design of all fiber structure and use double cladding fiber pumping technology, thus realizing high performance output laser. The output power can be up to 10W and near diffraction-limited beam quality is achieved at the same time. They can be widely used in the areas of scientific research, experimental teaching and device testing.

The 1.5um CW fiber lasers of Connet Laser employ 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 can give a real-time display of the operating state of the output power and temperature. The LCD can also offer warning messages. Besides, in order to be convenient for system integration, our company can offer modularized encapsulation according to the user's requirements.

## Specifications:

Parameter	Unit	Specification		
		Min	Typ	Max
Part No.		VFLS-1550-B		
Center wavelength	nm	-	1550	-
Output power <sup>1</sup>	W	0.5	-	10
Output power adjustment range	%	10	-	100
Spectral width <sup>2</sup> (FWHM)	nm	0.1	-	-
Side Mode Suppression Ratio	dB	35	-	-
Beam quality	M <sup>2</sup>	<1.1		
Operation Mode		CW		
Output polarization		Radom(PM optional)		
Stability of output power (15min) <sup>3</sup>	%	-	±0.5	±1.0
Stability of output power (8h) <sup>3</sup>	%	-	±1	±2
Light isolation	dB	35	-	-
Return Loss	dB	40	-	-
Operating temperature	℃	-25	-	50
Storage temperature	℃	-40	-	85
Operating voltage	VAC	170	220	260
Output fiber type <sup>4</sup>		SMF-28 Single mode fiber		
Length of output fiber	m	> 1		
Output mode		FC/APC(other options available)		
Dimension	mm	420(L)×485(W)×105(H)		

## Specifications:

- Output power is optional, typical output power: 0.5W、1W、2W、5W、10W;
- Spectral width on request;
- The output power stability is measured under 25℃, 30 minutes after warm-up;
- PM fiber is optional.

## Ordering information:

- VFLS-1550-B-<PW>
- B: Benchtop
- PW: Output power in W, 0.5-0.5W, 2-2W



Room 303, No.950 Jianchuan Road, Shanghai 200240, China

021-61270268

021-61270289

sales@connet-laser.com

www.connet-laser.com



CONNET LASER TECHNOLOGY CO., LTD.