



## VENUS SERIES

VFLS-1064-B

### Features:

- High output power: up to 50W
- Excellent beam quality
- High Stability and reliable performance
- Single-mode output, PM optional

### Applications:

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

### 1.0um Single-mode CW Fiber Laser

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 50W and the 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 1.0um single-mode CW fiber laser of Connet 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 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, in order to be convenient for system integration, Connet can offer modularized package according to the users' requirements.

## Specifications:

Parameter	Unit	Specification			
Part no.		VFLS-10-1	VFLS-10-5	VFLS-10-10	VFLS-10-50
Center wavelength	nm	1040~1097			
Output power <sup>1</sup>	W	1	5	10	50
Output power adjustable range	%	10~100			
Spectral width (FWHM) <sup>2</sup>	nm	<1			
SMSR	dB	35			
Beam quality	M <sup>2</sup>	<1.1			<1.3
Operation mode		CW			
Polarization		Radom (PM optional)			
Output power stability (15mins)	%	±0.5			
Output power stability (8h) <sup>3</sup>	%	±1			
Output isolation	dB	30			
Return loss	dB	60			
Operating temperature	℃	0~+50	0~+30		
Storage temperature	℃	-40~+ 85			
Operating voltage	VAC	100~240			
Output fiber type		SM fiber			LMA fiber
Output fiber length	m	> 1			
Optical connector		FC/APC (other options available)			
Dimension <sup>4</sup>	mm	19" 2U			19" 3U

## Specifications:

- Output power is optional, typical output power: 1W、2W、5W、10W、20W;
- Spectral width on request;
- The output power stability is measured under 25℃, after 30 minutes' warm-up;
- Module package is available.

## Ordering information:

- VFLS-1064-B-<PW>
- B: Benchtop
- PW: Output power in W, 5-5W, 10-10W



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