



VENUS SERIES

VLSS-XXXX-B

Features:

- High Power, SM output
- Changeable output power
- Wavelength Stabilized with FBG
- High stability, high reliability
- High accuracy ACC & ATC

Applications:

- Testing and measurement
- Optical fiber communication
- Optical Fiber sensing
- Spectrum analysis
- Research & development

High Stability Diodes Laser Sources

The VENUS series high stability diodes laser source of Connet Laser adopts high-performance LD and has stable wavelength and high output power. The control system based on advanced microprocessor, together with high-precision ATC and ACC control circuit, realize stable output and ensure the simplicity and immediacy of the manipulation simultaneously. Connet Laser can offer the corresponding communication interface and control software according to the requirement of the user in order to achieve computer control.

The diode laser sources of Connet Laser can adopt different kinds of diodes laser according to the requirement of the user, including F-P,DFB,ECL. The typical operating wavelengths which can be selected include 750nm ,808 nm ,852nm,1035nm,1064nm,1550nm,etc. The single-mode fiber output or polarization-maintaining fiber output is optional.

The VENUS series single-mode diode laser source of Connet Laser is a highly integrated system source. The desktop encapsulation uses high-definition LCD which displays the current and voltage synchronously and has continuously tunable output power.They are suitable for scientific research and manufacturing testing. In addition, Connet Laser can provide modularized encapsulation according to the requirement of the user, which is characterized by compact structure, DC supply and convenience for system integration.

Specifications:

Parameter	Unit	Specification		
		Min	Typ	Max
Part No.		VLSS-XXXX-B		
Radiation source		FP-LD or DFB-LD		
Output power ¹	mW	>10		
Operating wavelength ²	nm	600-1650		
Spectral width(FWHM) ³	/	FP-LD:<1nm; DFB-LD:<3MHZ		
Output power stability(15min)	%	-	±0.5	±1.0
Output power stability(8h) ⁴	%	-	±1.0	±2.0
Output power tunable range	%	0	-	100
Output power tunable mode		coarse/fine		
TEC stability	°C	-	±0.1	±0.2
TEC operating range	°C	25	30	35
Power supply	V	170	220	260
Power consumption ⁵	W	-	-	30
Operation temperature	°C	0	-	50
Storage temperature	°C	-40	-	85
Output fiber type		SM fiber(PM optional)		
Length of the output fiber	m	> 1		
Optical connectors		FC/APC(other options available)		
Dimension	mm	270(L)×235(W)×105(H)		

Specifications:

- The Output power is optional;
- The central wavelength can be customized;
- The Spectral Width depends on the Radiation source and wavelength;
- The output power stability is measured under 25°C, 30 minutes after warm-up;
- The max power consumption is tested under the extreme condition.

Ordering information:

- VLSS-XXXX-P-<PW>
- XXXX: wavelength in nm.
- P: Package, B-Benchtop; M-Module
- PW: Output power in mW. Example 100-100mW、400-400mW



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