

## 793nm High Stability Multi-mode Pump Laser Source



### Product Description:

The VENUS series 793nm multi-mode pump laser source of Connet has high power and high brightness output with a built-in Single Emitter laser. The control system based on the advanced microprocessor, combined with high-precision ATC and ACC (APC) control circuits, realizes the highly stable output of the laser, and at the same time ensures the fast and intuitive control of the laser source. Connet can also provide corresponding communication interfaces and control software according to user requirements to achieve computer control.

Connet VENUS series 793nm multimode pump laser source can be used as the pump laser source for thulium-doped fiber lasers and fiber amplifiers. It uses Connet's unique AWL (Active Wavelength Locking) active wavelength locking technology to ensure that the peak wavelength is stabilized in the range of 793 +/- 3nm in the case the power is reduced to half. It greatly improves the stability and efficiency of the laser source.

Connet VENUS series 793nm multi-mode pump laser source is a highly integrated system source. The benchtop source uses the high-definition LCD to display the current and voltage synchronously and also has the continuously adjustable output power which is suitable for scientific research and manufacture testing. In addition, Connet Laser can provide compact module package for system integration.

### Applications:

- Pump for double-clad fiber laser & amplifier
- Spectral analysis
- Test and measurement
- Other lab applications

### Features:

- High output power
- Wavelength-stabilized optional
- 1900-2100nm feedback protection
- High stability and high reliability



### Specifications:

Parameter	Unit	Specification		
		Min	Typ.	Max
Part no.		VLSM-793-B		
Output power <sup>1</sup>	W	4	-	50
Operating wavelength	nm	790	793	796
Spectral width (FWHM)	nm	-	2	4
Output isolation <sup>2</sup>		25	30	
Output power stability (15mins) <sup>3</sup>	%	-	±0.1	±0.5
Output power stability (8h) <sup>3</sup>	%	-	±1.0	±2.0
Output power tunable range	%	0	-	100
Output power tunable mode		Coarse / Fine		
Output fiber type		105/125 NA= 0.22		
Output fiber length	m	> 1		
Optical connector		FC/APC (other options available)		
Operating voltage	VAC	100-240		
Power consumption <sup>5</sup>	W	-		150
Operating temperature	°C	0		+30
Storage temperature	°C	-40		+85
Dimensions	mm	320(L)×280(B)×150(H)		

### Specifications:

- Typical output power: 4W,10W,30W,50W. Higher output power is available;
- Isolation refers to the feedback of ASE@1900-2100nm;
- The output power stability is measured under 25°C, after 30 minutes' warm-up;
- The max power consumption is tested under the extreme temperature conditions.

### Ordering information:

- VLSM-793-P-PW- <SP>
- P: Package, B-Benchtop, M-Module
- PW: Output power in W; 4-4W, 30-30W