

## 1.0um ASE Broadband Light Source



### Product Description:

The VENUS series 1.0um high-stability ASE light sources of Connet use an optimized Yb-doped fiber all-fiber configuration, and cooperates with a carrier-grade 980nm single-mode pump laser to achieve high-performance output. The control system based on advanced microprocessors, combined with high-precision ATC and ACC (APC) control circuits, achieves a high and stable output of the laser, while ensuring fast and intuitive control of the light source.

Connet VENUS series high stability ASE light source has a highly stable output, and the long-term output power stability is even better than 1%. The unique high stability control circuit and the thermal control design of Connet guarantee the stable output.

The VENUS series benchtop 1.0um high-stability ASE light sources of Connet are highly integrated system with high-definition LCD which displays the key parameters such as output power, pump laser status etc. It's suitable for scientific research and manufacturing testing. In addition, Connet can also provide compact module package for system integration.

### Applications:

- Test and measurement
- Optical fiber sensor system
- Optical coherence tomography
- Spectrum analysis
- Other lab applications

### Features:

- Single-mode output
- Wide spectrum: > 45nm
- High output power
- Low RIN

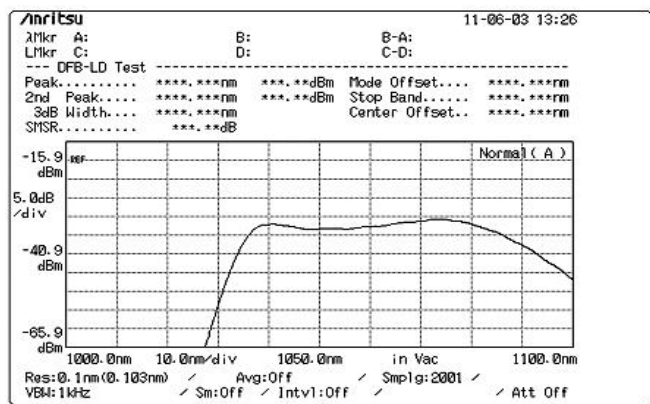
## Specifications:

Parameter	Unit	Specification		
		Min	Typ.	Max
Part no.		VASS-Yb-B: SM    VASP-Yb-B: PM		
Output power <sup>1</sup>	mW	10	-	100
Operating wavelength	nm	1035	-	1080
Spectral width (FWHM)	nm	-	45	-
Spectral flatness (Standard)	dB	-	4	6
Spectral flatness (Gain Flatted)	dB	-	2	3
Output isolation	dB	30	35	-
Stability of output power (8hrs) <sup>2</sup>	%	-	±1.0	±2.0
Output Power adjustment mode		Coarse / Fine		
Output fiber type (SM)		SMF 6/125um NA=0.13		
Output fiber type (PM)		Panda 980 NA=0.13		
Polarization extinction ratio (PER)	dB	> 20(PM output fiber)		
Length of output fiber	m	> 1		
Output fiber connector		FC/APC (other options available)		
Operating voltage	VAC	100-240		
Power consumption <sup>3</sup>	W	-	-	20
Operating temperature	°C	0	-	+50
Storage temperature	°C	-40	-	+85
Dimension	mm	340(L)×240(W)×100(H)		

## Specifications:

- Output power is optional , typical output power: 10mW, 20mW, 50mW,100mW
- The output power stability is measured under 25°C, 30 minutes after warm-up.
- The max power consumption refers to the consumption under extreme temperature conditions.

## Spectrum:



## Ordering information:

- VASS-Yb-P-<PW>-<FL>
- VASP-Yb-P-<PW>-<FL>
- VASS: SM fiber output; VASP: PMF output.
- P: Package, B-benchtop, M-module
- PW: Output power in mW.  
Example: 30-30mW, 50-50mW
- FL: Spectral flatness: 0-Standard, 1- Gain Flatted