



VENUS SERIES

VLS-XXXX-B

Features:

- High power and wide spectrum
- Multiple safety protection
- High stability and high reliability
- LCD display
- High precision ATC and ACC control circuit

Applications:

- Test and measurement
- Optical fiber sensor system
- Fiber optic gyroscope
- Spectrum Analysis
- Other lab application

SLD Broadband Light Sources

The VENUS series high-power SLD (SLED) light source of Connet Laser is a high-stability source designed for scientific research and industrial production; internally installed high-power, broadband SLD (SLED) module. Aiming at special characteristics of SLD (SLED) laser, the SLD (SLED) light source of Connet Laser employs specialized protective measurement on circuit design and optical path processing in order to protect the laser from the reflected light and the surge of current or voltage, thus ensuring that the light source can operate safely and stably in a long time.

The VENUS series SLD (SLED) source of Connet Laser covers different interval within the scope of 800~1650nm, the typical wavelengths include: 840nm, 980nm, 1060nm, 1310nm, 1550nm, etc. There are plenty of choices for output power and spectral width. In addition, our company can offer low polarization ratio SLD source to satisfy demands for different applications according to the requirement of the user.

Specifications:

Parameter	Unit	Specification		
		Min	Typ	Max
Part No.		VSLS-XXXX-B		
Center wavelength	nm	840nm、980nm、1060nm、1310nm、1550nm		
Output power ²	mW	>1.5		
Spectral width (FWHM) ³	nm	>20		
Spectral modulation	dB	<0.45		
Output isolation ⁴	dB	30		
Stability of output power (15min) ⁵	%	<1		
Stability of output power (8h) ₅	%	<3		
Output power operating range		Coarse/fine		
Operating voltage	VAC	170	220	260
Power consumption	W	-	-	5
Operating temperature	℃	0	-	50
Storage temperature	℃	-40	-	85
Output fiber type		Single Mode Fiber (PM fiber optional)		
Length of output fiber	m	> 1		
Output fiber connector		FC/APC (other options available)		
Dimension	mm	270(L)×235(W)×105(H)		

Specifications:

- Center wavelength is optional;
- Output power is optional, depend on wavelength;
- Spectrum width is optional, depend on wavelength;
- Output isolation is related to wavelength;
- The output power stability is measured under 25℃, 30 minutes after warm-up.

840nm SLD Broadband Light Sources

Part No	Output power ¹ (mW)	FWHM(nm)	Part No.	Output power ¹ (mW)	FWHM(nm)
VSLS-840-B-1	1	50	VSLS-840-B-15	15	50
VSLS-840-B-3	3	20	VSLS-840-B-20	20	18
VSLS-840-B-7.5	7.5	50	VSLS-840-B-25	25	50
VSLS-840-B-10	10	18	VSLS-840-B-30	30	14



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

021-61270268

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sales@connet-laser.com

www.connet-laser.com



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980nm SLD Broadband Light Sources

Part No	Output power ¹ (mW)	FWHM(nm)	Part No.	Output power ¹ (mW)	FWHM(nm)
VSLS-980-B-2	2	35	VSLS-980-B-3	3	20

1060nm SLD Broadband Light Sources

Part No	Output power ¹ (mW)	FWHM(nm)	Part No.	Output power ¹ (mW)	FWHM(nm)
VSLS-1060-B-1.5	1.5	70	VSLS-1060-B-10	10	70
VSLS-1060-B-5	5	35	VSLS-1060-B-20	20	35
VSLS-1060-B-5	5	70	VSLS-1060-B-20	20	70
VSLS-1060-B-10	10	30	VSLS-1060-B-30	30	35

1310nm SLD Broadband Light Sources

Part No	Output power ¹ (mW)	FWHM(nm)	Part No.	Output power ¹ (mW)	FWHM(nm)
VSLS-1310-B-1	1	43	VSLS-1310-B-18	18	42
VSLS-1310-B-2	2	45	VSLS-1310-B-20	20	30
VSLS-1310-B-5	5	50	VSLS-1310-B-20	20	56
VSLS-1310-B-8	8	75	VSLS-1310-B-30	30	58
VSLS-1310-B-10	10	30	VSLS-1310-B-40	40	43
VSLS-1310-B-15	15	30	VSLS-1310-B-40	40	32
VSLS-1310-B-15	15	83	VSLS-1310-B-50	50	38

1550nm SLD Broadband Light Sources

Part No	Output power ¹ (mW)	FWHM(nm)	Part No.	Output power ¹ (mW)	FWHM(nm)
VSLS-1550-B-0.2	0.2	95	VSLS-1550-B-10	10	40
VSLS-1550-B-1	1	43	VSLS-1550-B-15	15	40
VSLS-1550-B-3	3	45	VSLS-1550-B-16	16	80
VSLS-1550-B-3	3	60	VSLS-1550-B-20	20	40
VSLS-1550-B-5	5	60	VSLS-1550-B-25	25	40
VSLS-1550-B-8	8	60	VSLS-1550-B-35	35	40

Notes:

All the output power above refer to the power without isolator. Output power will decrease 5%-20% with isolator.



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