

SLD Broadband Light Source



Product Description:

The VENUS series high-power SLD (SLED) light source of Connet is a high-stability source designed for scientific research and industrial production with the high-power, broadband SLD (SLED) module being installed internally. Aiming at special characteristics of SLD (SLED) laser, the SLD (SLED) light source of Connet employs the 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 be operated safely and stably in a long time.

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

Applications:

- Test and measurement
- Optical fiber sensor system
- Fiber optic gyroscope
- Spectrum analysis
- Other lab applications

Features:

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

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		
Output power Stability (15mins) ⁵	%	<1		
Output power Stability (8h) ⁵	%	<3		
Output power tunable mode		Coarse / Fine		
Output fiber type		Single-mode Fiber (PM optional)		
Output fiber length	m	> 1		
Optical connector		FC/APC (other options available)		
Operating voltage	VAC	100-240		
Power consumption	W	-	-	5
Operating temperature	°C	0	-	+50
Storage temperature	°C	-40	-	+85
Dimension	mm	340(L)×240(W)×100(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°C, after 30 minutes' warm-up;

Ordering information:

- VSLS-XXXX-P-<PW>
- XXXX: Center wavelength in nm
- P: Package, B-Benchtop, M- Module
- PW: Output power in mW. Example: 20-20mW, 100-100mW



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

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 refers to the power without isolator. Output power will decrease 5%-20% with isolator.