CONNET LASER TECHNOLOGY

VENUS SERIES

VFLS-1064-M-PL

Features:

- High peak power: up to 25KW
- Average power: 5w
- Repetition rate adjustable：30-500 KHz
- Excellent beam quality
- Maintenance–free Operation

Applications:

- LiDAR
- 3D scanning
- Range finding
- Target detection
- Telemetry

1064nm Short Pulse Fiber Laser For LiDAR

The 1064nm pulse fiber laser for LiDAR of Connet Laser is a high peak power, high pulse energy fiber laser source. Using MOPA configuration and all- fiber optimized design offer the high peak power and near diffraction-limited quality output beam. The 1064nm pulse fiber lasers for LiDAR of Connet Laser are ideal sources for LiDAR applications of 3D scanning, telemetry and range finding.

The 1064nm pulse fiber laser for LiDAR of Connet Laser employs module package with compact and rugged design, integrated with external trigger and monitor output for synchronization. It is easily deployed and maintenance-free, ensuring a long- life and cost-effective operation. The user also can adjust pulse width and repetition rate of the laser by connecting computer. It is suitable for system integration.

Specifications:

Parameter	Unit	Specification		
Part No		VFLS-1064-M-5-PL	VFLS-1064-M-10-PL	VFLS-1064-M-25-PL
Operating wavelength	nm	1040~1083		
Pulse width[1]	ns	5~50		
Repetition rate[2]	kHz	30~500		
Peak power	kW	5	10	25
Average power	W	5		
Output power stability[3]	%	±2		
Beam quality[4]	M^2	1.2		1.3
Operational mode	/	Short Pulse		
Polarization	/	random		
Trigger mode		External TTL		
Output fiber type		LMA fiber		
Fiber length	m	0.5		
Output fiber connector	/	FC/APC+Collimator		
Control interface	/	Rs232		
Operating voltage	VDC	24		
Warm-up time	min	1		
Operating temperature	°C	-10~+45		
Storage temperature	°C	-20~+60		
Weight	kg	2.8		
Cooling mode		Air-Cooled		
Dimensions	mm	200X135X60mm		

Specifications:

- Pulse width is adjustable;
- Frequency is adjustable;
- The output power stability is measured under 25℃，30 minutes after warm-up;
- The beam quality is related to the output power.

Ordering information:

- VFLS-1064-M-XX-YY-ZZ-PL
- M：Module
- XX：Pulse width in ns
- YY：Repetition rate in kHz
- ZZ：Peak power in KW

Room 303,No.950 Jianchuan Road,Shanghai 200240,China
021-61270268
021-61270289
sales@connet-laser.com
www.connet-laser.com
CONNET LASER TECHNOLOGY CO., LTD.