

High Power Single Mode 1064nm Laser Source

(up to 20W output power)

Product Description

Photonwares 1064nm CW fiber lasers provide highly integrated continuous Yb-doped fiber laser system with high power output. They employ the integrated design of all-fiber structure and use double cladding fiber pumping technology to realize the high-performance output laser. The output power is up to 20W and the near diffraction limited beam quality can be achieved at the same time. The lasers can be widely used in the areas of scientific research, experimental teaching and device testing.

Features

- Low Cost
- High Stability
- High Reliability
- SM Beam Quality
- All-fiber Construction
- High Output Power



Performance Specifications

1064nm CW fiber laser source	Min	Typical	Max	Unit
Central Wavelength		1064		nm
Output Power ^[1]	0.2		20	W
Output Power Adjustment Range	10		100	%
Spectral Width (FWHM) ^[2]			1	nm
Side Mode Suppression Ratio	35			dB
Beam Quality	<1.2			M ²
Option Mode	CW			
Stability of Output Power(15min) ^[3]		±0.5	±1.0	%
Stability of Output Power(8h) ^[3]		±1	±2	%
Light Isolation	35			dB
Return Loss ^[4]	40			dB
Operating Temperature	-35		50	°C
Storage Temperature	-40		85	°C
Power Supply	110/220			VAC
Output Fiber	LMA fiber			

[1]. output power is optional, typical output power: 0.5W、1W、2W、5W、15W、20W;
 [2]. Spectral width on request;
 [3] The output power stability is measured under 25°C, 30 minutes after warm-up;
 [4] excluding connector.

Applications

- LIDAR
- Medical procedures
- Test and measurement
- Material processing

Mechanical Dimensions (Unit: mm)

Dimensions: 430mm L x 450mm W x 105mm H (Benchtop)
 200mm L x 135mm W x 60mm H (Module)

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

SMFL-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Type	Wavelength	Configuration	Package	Fiber Type	Fiber Length	Connector ^[2]			
CW = 1 Pulsed = 2	1064 = 1 1550 = 5 Special=0	0.5W = 05 1W = 1W 2W = 2W 5W = 5W 10W = 10 15W = 15 20W = 20 Special = 00	Module =1 Benchtop Turn Key =2 Special=0	SMF-28 =1 PM1550=2 LMA = 3 Special=0	Bare fiber=1 2 mm Jacket=2 900µm tube=3 Special=0	0.25m=1 0.5m=2 1.0m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0		

[1]. **SMFL**: Single-mode Fiber Laser
 [2]. **High Power Connectors are extra cost**