



CW Fiber Laser FLC Series

Data Sheet



Overview

The FLC series is a family of infrared all fiber continuous wave lasers at 1064nm and 1080nm that can deliver up to 200 W output power. The laser is constructed with features of high power, air-cooled, ultra-compact design, long lifetime, cost effectiveness, and easy operation. It is commonly used in laser radar, life science, material processing, microelectronics, scientific research, and many other applications.

Features

- 1064nm and 1080nm wavelengths
- CW operating mode
- Optical output power 3000mW to 200W
- Ultra-compact design

Applications

- Laser radar
- Material processing
- Microelectronics
- Scientific research

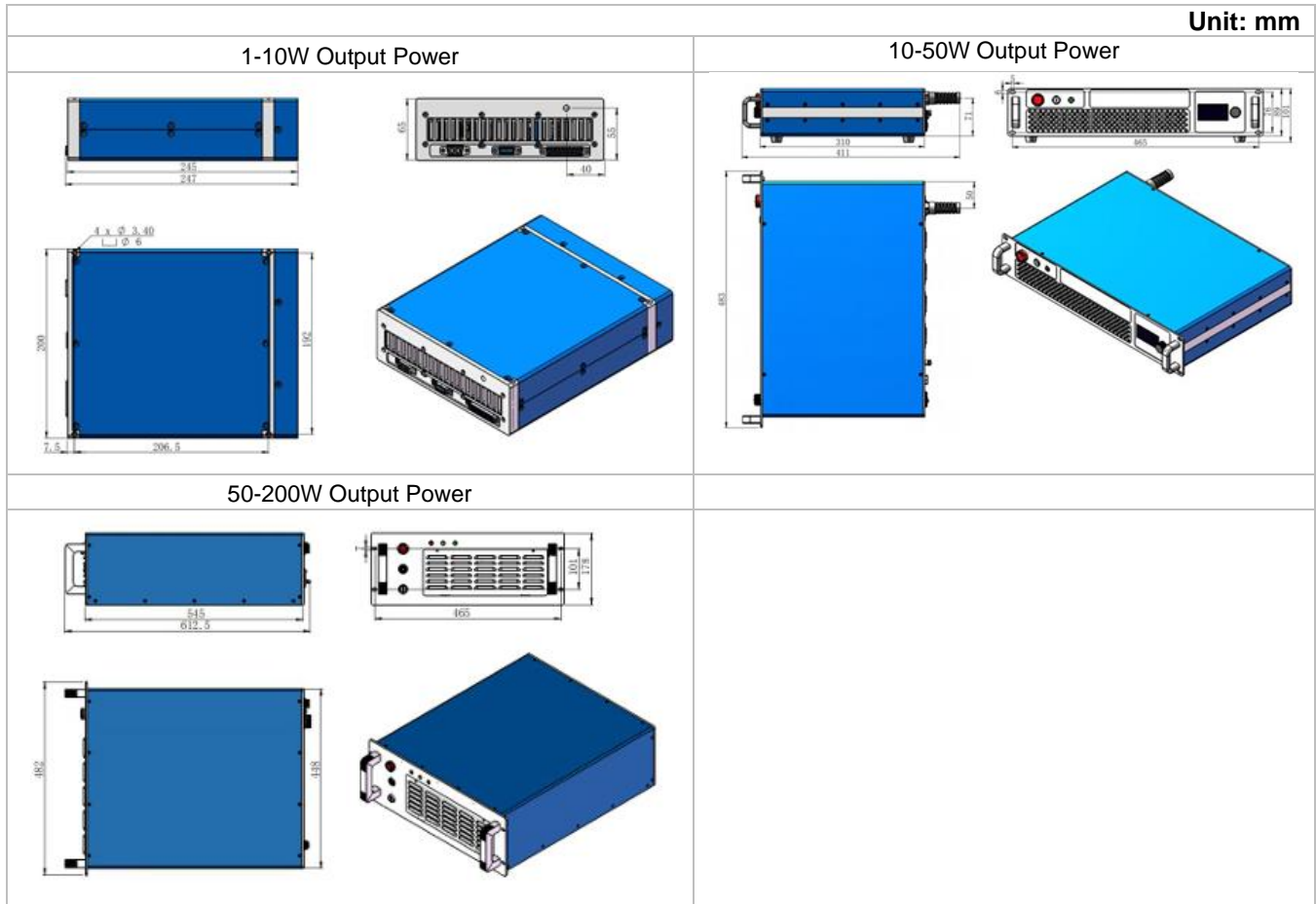
1064-1080 nm Specifications

Parameter	FLC1064			FLC1080		
Wavelength	1064±2 nm			1080±2 nm		
Operating mode	CW or Modulated			CW or Modulated		
Output power	~5 W, ~10 W	~20 W, ~50 W	~100 W, ~200 W	~3 W, ~5 W, ~10 W	~15 W, ~20 W, ~30 W, ~50 W	~80 W, ~100 W, ~150 W, ~200 W
Transverse mode	TEM ₀₀ for 1-20W, Multimode for >20W			TEM ₀₀ for 1-20W, Multimode for >20W		
Power stability (rms, over 4 hours)	<3%, <1%			<2%, <1%		
Delivery fiber length	2-5 m			2-5 m		
Output fiber termination	Collimator			Collimator		
Beam diameter (1/e ²)	6±1 mm			6±1 mm		
M ² factor	<1.5			<1.5		
Polarization state	Random			Random		
Warm-up time	<15 min			<15 min		
Operating temperature	15-35°C			15-35°C		
Cooled method	Air cooled			Air cooled		
Expected lifetime	10,000 hours			10,000 hours		
Warranty	10 months			10 months		

Remarks:

- The fiber lasers are designated solely as OEM components for incorporation into the customer's end products. It is the customer's responsibility to comply with FDA requirements of FDA 21CFR, section 1040.10 and 1040.11 for complete laser products. For the code of FDA regulations, please refer to [FDA Performance Standards for Light-Emitting Products](#) for detailed information.
- Specifications are subject to change without notice.

FLC Series Laser Dimensions (Unit: mm)



Parameter	1-10W Output Power	10-50W Output Power	50-200W Output Power
Dimensions	247(L) x 200(W) x 65(H) mm ³	483(L) x 411(W) x 101(H) mm ³	482(L) x 612.5(W) x 178(H) mm ³
Weight	3.5 kg	5 kg	33 kg
Input voltage	220V AC	220V AC	220V AC

Ordering Information

For more information, please contact Lasermate directly at sales@lasermate.com.

Part Number Configuration FLC[1][2][3]			
FLC = Laser Model Series	[1] = Wavelength	[2] = Output Power	[3] = Power Stability
	1064= 1064nm 1080= 1080nm	3W= 3000mW 5W= 5000mW 10W= 10000mW ... 150W= 150000mW 200W= 200000mW	E= <3% 2= <2% D= <1%

Note: The above specifications are subject to change without notice.