Preliminary

www.LiComm.com

kW Fiber Laser

CWB Series

LiComm CWB Series is a lineup of single-mode rackmount fiber lasers that offers high power, high beam quality, high energy density, and high reliability. The available CW output range is selectable from 500W to 3kW, and can be modulated up to 50kHz. This rack-mounted product is easy to install in various spaces, works with processing equipment, and is easy to use. It can be used in various fields such as welding, precision cutting, drilling, cleaning, and 3D printing.

Single Mode Rackmount Type CW Fiber Laser

Features

- Average Output Power up to 3kW
- 1080nm laser wavelength
- CW/modulation
- Modulation up to 50kHz
- Beam Parameter Product ≥ 0.45
- Easy to install
- Maintenance free

Applications

- Welding
- Cutting
- Drilling
- Surface Treatment
- Micro-processing
- 3D Printing

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Single Mode Rackmount Type CW Fiber Laser Characteristics

Model	CWB-500	CWB-1000	CWB-1500	CWB-2000
Optical Characteristics				
Mode of Operation	CW / Modulation			
Central Wavelength(nm)	1080 ± 5			
Maximum Average Power(W)	500	1000	1500	2000
Modulation Frequency(kHz)	0 ~ 50			
Rise and Fall Times(μs)	≤ 11			
Polarization	Random			
Power Tunability(%)	10 ~ 100			
Power Stability(8-Hour_%)	≤ 1			
Single-mode Beam Quality(M^2)	≤ 1.3			
Beam Parameter Product(mm × mrad)	≤ 0.45@ 20 μm, <2 @ 50 μm, <5 @ 100 μm, <10 @ 200 μm			
Aiming Beam Power(mW)	< 1			
General Characteristics				
Supply Voltage(VAC)	Single-Phase, 200 – 240			
Operating Voltage Frequency(Hz)	50/60 ± 5%			
Max. Power Consumption(kW)	1.8	3.6	5.4	7.2
Control Interface	External hardware control / RS-232 / Ethernet			
Dimensions (W x D x H)(mm)	450 x 600 x 160			
Weight(kg)	<36	<38	<45	<50
Delivery Fiber	QBH			
Cooling Method	Water			
Operating / Storage Temperature(°C)	+10 to +40 / -10 to +60			
Relative Humidity(%)	10 to 80			

VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT

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