1500W-3000W
CW Fiber Lasers

Everfoton's CW Fiber Lasers feature a unique combination of high power and high brightness specially designed for welding applications. With high wall-plug efficiency and features such as multi-stages anti-back reflection protection and compact design, customers can easily find a laser to best fit their welding applications. Customers choose different fiber output core diameters and beam modes according to applications.

Applications

- Sheet metal machining-welding
- Laser cleaning

Characteristics

- High wall-plug efficiency
- Maintenance-free
- Intelligent control system
- Multi-stages anti-back reflection protections

Specifications

	Product Code	FFRC-1500H-C	FFRC-2000H-C	FFRC-3000H-C
Optical Parameters	Output Power (W)	1500	2000	3000
	Operating Mode	CW / Modulated		
	Polarization State	Random		
	Output Power Tunability (%)	10 - 100		
	Beam Quality BPP (mm x mrad)	< 1.2		
	Divergence Half-angle (rad)	< 0.06		
	Output Power Instability 25℃ (%)	< 2 (2 hours)		
	Emission Wavelength (nm)	1080 ± 5		
	Spectrum Width FWHM (nm)	< 4		
	Modulation Frequency (kHz)	5		
	Red Laser Power (μW)	> 200		
Fiber Delivery Cable Parameters	Output Type	QBH		
	Length (m)	12		
	Core Diameter (μm)	20 / 30 / 50		50 / 100
	Minimum Bending Radius (mm)	200		
Electrical Characteristics	Operating Voltage (VAC)	200 - 240, 1PH 50 / 60Hz		340 - 420, 3P5W 50 / 60Hz
	Max Power Consumption (kW)	5	6.5	9
	Control Mode	RS232 / AD / Ethernet		
Other Characteristics	Operating Temperature(℃)	10 - 40		
	Humidity (%)	10 - 80		
	Cooling Method	Water Cooled		
	Water-cooling Temperature (℃)	25 ± 1		
	Water-cooling Flow (L/min)	> 20 (Laser) 1.5 - 2.5 (QBH)		> 30 (Laser) 1.5 - 2.5 (QBH)
	Water-cooling Pressure (Bar)	3 - 5		
	Joint Diameter (mm)	12	16	
	Dimension (mm)	W482 x D575 x H133 (Include Handles)		
	Weight (kg)	30 ± 3	40 ± 3	50 ± 3