1500W-3000W
High-brightness CW Fiber Laser

Everfoton's high-brightness fiber lasers adopt a special optical design and process to suppress transverse mode instability and stimulated Raman scattering. It achieves a 14μm small core diameter single-mode output and has high brightness, high anti-reflection, excellent stability, etc. The laser is suitable for new energy, 3C, electrical industry and can be used for high-reflecting materials (such as: copper, brass) cutting.

Applications

- Laser Cutting
- Laser Welding

Characteristics

- Multi-stages anti-back reflection protections
- High beam quality
- High stability
- High cutting quality

Specifications

	Product Code	FFRC-1500SM-C	FFRC-2000SM-C	FFRC-3000SM-C
Optical Parameters	Output Power (W)	1500	2000	3000
	Operating Mode	CW / Modulated		
	Polarization State	Random		
	Output Power Tunability (%)	10 - 100		
	Beam Quality M^2 (Typical)	1.2		1.3
	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)	5		10
	Core Diameter (μm)	14		20
	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	
	Dimensions (mm)	W482 x D575 x H133 (Include handles)		
	Weight (kg)	30 ± 3	40 ± 3	50 ± 3