4000W-6000W
CW Fiber Lasers

Everfoton 4000W-6000W CW Fiber Lasers feature high wall-plug efficiency, multi-stages anti-back reflection protection, and compact design. The 800μm brightness output option and flat-top beam can increase the utilization rate of powder during the melting process, with excellent molding effect.

Applications

- Cladding
- Quenching
- Surface heat treatment

Characteristics

- High wall-plug efficiency
- Flat top beam for cladding application
- Multi-stages anti-back reflection protections
- Compact design with small footprint

Specifications

	Product Code	FFSC-4000F	FFSC-6000F
Optical Parameters	Output Power (W)	4000	6000
	Operating Mode	CW / Modulated	
	Polarization State	Random	
	Output Power Tunability (%)	10 - 100	
	Beam Quality M^2	> 110	
	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)	> 120	
Fiber Delivery Cable Parameters	Output Type	QBH / LOE	
	Length (m)	20	
	Core Diameter (μm)	800	
	Minimum Bending Radius (mm)	200	
Electrical Characteristics	Operating Voltage (VAC)	340 - 420, 3P5W, 50 / 60Hz	
	Max Power Consumption (kW)	12	18
	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)	> 80 (Laser), 1.5 - 2.5 (QBH)	
	Water-cooling Pressure (Bar)	5 - 6	
	Joint Diameter (mm)	25	
	Cooler Rated Cooled Capacity (kW)	8	12
	Dimension (mm)	W600 x D750 x H650 (Not Include Lights)	
	Weight (kg)	180 ± 10	190 ± 10