

4000W-6000W CW Fiber Lasers

Everfoton 4000W - 6000W CW Fiber Lasers are designed to deliver the best performance on metal cutting, welding, and drilling applications based on its unique features such as high back reflection resistance, high wall plug efficiency, and compact design. 50µm/100µm high brightness output option can accelerate the cutting of thin metal. Larger beam spot option enables excellent quality cutting of thick metals.



Applications

- Sheet metal machining-cutting
- Welding

Characteristics

- High wall-plug efficiency
- Flat top energy distribution
- Multi-stages anti-back reflection protections
- Less spatter in welding
- Maintaining thin-plate cutting speed and medium- and thick- plate cutting quality

Specifications

	Product Code	FFSC-4000	FFSC-6000
Optical Parameters	Output Power (W)	4000	6000
	Operating Mode	CW / Modulated	
	Polarization State	Random	
	Output Power Tunability (%)	10 - 100	
	Beam Quality BPP (mm x mrad)	< 4.0	
	Output Power Instability 25°C (%)	< 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)	20	
	Core Diameter (µm)	50 / 100	
	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(°C)	10 - 40	
	Humidity (%)	10 - 80	
	Cooling Method	Water Cooled	
	Water-cooling Temperature (°C)	25 ± 1	
	Water-cooling Flow (L/min)	> 70 (Laser), 1.5 - 2.5 (QBH)	
	Water-cooling Pressure(Bar)	5 - 6	
	Joint Diameter (mm)	25	
	Min Cooled Capacity (kW)	7	12
	Weight (kg)	W600 x D750 x H650 (Not Include Lights)	
	Dimension (mm)	180 ± 10	190 ± 10