

# 12000W CW Fiber Laser

Everfoton's 12000W CW Fiber Laser is designed to deliver the best performance on metal cutting, welding, and drilling based on its unique features such as high back reflection resistance, high wall plug efficiency, and compact design. Flat top beam enables excellent-quality cutting and welding of medium-thick sheet metals.



## Applications

- Sheet metal machining-cutting
- Welding

## Characteristics

- High wall-plug efficiency
- Flat top beam options
- Multi-stages anti-back reflection protections
- Less spatter in welding
- Compact design with small footprint

# Specifications

	<b>Product Code</b>	<b>FFSC-12000</b>
<b>Optical Parameters</b>	Output Power (W)	12000
	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
<b>Fiber Delivery Cable Parameters</b>	Output Type	QD / Q + / LOE
	Length (m)	25
	Core Diameter (μm)	100 / 150 / 200
	Minimum Bending Radius (mm)	200
<b>Electrical Characteristics</b>	Operating Voltage (VAC)	340 - 420, 3P5W 50 / 60Hz
	Max Power Consumption (kW)	36
	Control Mode	RS232 / AD / Ethernet
<b>Other Characteristics</b>	Operating Temperature (°C)	10 - 40
	Humidity (%)	10 - 80
	Cooling Method	Water Cooled
	Water-cooling Temperature (°C)	25 ± 1
	Water-cooling Flow (L/min)	> 100 (Laser), 2 - 4 (QD)
	Water-cooling Pressure (Bar)	5 - 6
	Joint Diameter (mm)	32
	Min Cooled Capacity (kW)	25
	Dimension (mm)	W600 x D750 x H1100 (Not Include Lights)
	Weight (kg)	350 ± 15