

3000-6000W CW Fiber Laser

Everfoton's CW Fiber Laser has the characteristics of high electro-optical efficiency, protection against high reflection, compact structure and convenient system integration. Depending on the application, customers can choose different optical fiber output core size and laser beam mode.



Applications

- Laser cutting



Characteristics

- Efficient sheet metal cutting
- Multiple protection against high reflection
- High electro-optical efficiency and maintenance-free
- Integrated remote monitoring

SPECIFICATIONS

Optical Characteristics

Model	FFRC-3000-C
Output Power (W)	3000
Operating Mode	CW / Modulated
Polarization	Random
Power Range (%)	10 - 100
Beam Quality BPP (mm x mrad)	< 2
Output Power Instability at 25°C (%)	< ±1.5 (2 Hours)
Central Wavelength (nm)	1080 ± 5
Spectrum Width FWHM (nm)	< 6
Modulation Frequency (kHz)	5
Red Laser Power (µW)	> 200

Output Cable Parameters

Output Mode	QBH
Output Fiber Core Diameter (µm)	50
Cable Length (m)	20
Bending Radius of Cable (mm)	200

Electrical Characteristics

Operating Voltage (VAC)	340 - 420V, 3P4W 50 / 60Hz
Rated Power Consumption (kW)	9
Control Mode	RS232, AD, Ethernet

Other Parameters

Operating Temperature (°C)	10 - 40
Relative Humidity (%)	10 - 80
Cooling Method	Water Cooled
Water-cooling Temperature (°C)	25 ± 1
Water-cooling Flow (L/min)	> 30 (Laser), 1.5 - 2.5 (QBH)
Water-cooling Pressure (Bar)	3 - 5
Joint Diameter (mm)	16
Dimensions (W*D*H) (mm)	482 x 575 x 133 (including handle)
Weight (kg)	50 ± 3