3000W
CW Fiber Laser

Everfoton's 3000W CW Fiber Laser features 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	FFRC-3000F-C
Optical Parameters	Output Power (W)	3000
	Operating Mode	CW / Modulated
	Polarization State	Random
	Output Power Tunability (%)	10 - 100
	Beam Quality M^2	< 80
	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)	15
	Core Diameter (μm)	600
	Minimum Bending Radius (mm)	200
Electrical Characteristics	Operating Voltage (VAC)	340 - 420, 3P5W 50 / 60Hz
	Max Power Consumption (kW)	9
	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)	> 30 (Laser), 1.5 - 2.5 (QBH)
	Water-cooling Pressure (Bar)	3 - 5
	Joint Diameter (mm)	16
	Dimension (mm)	W482 x D575 x H133 (Include Handles)
	Weight (kg)	50 ± 3