

1500W Single-mode Continuous Wave Narrow Line Width Fiber Laser

Everfoton's Narrow Linewidth Fiber Laser adopts single cavity or MOPA structure and can achieve over 1.5 kW single-mode fiber laser output. The high-power fiber laser output has excellent beam quality. With compact design and light weight, the product is suitable for high-power beam combination, long-distance and nonlinear frequency conversion transmission.



Applications

- Scientific research
- High-power beam combination

Characteristics

- Its high power single-mode output is based on single cavity / MOPA technology
- Narrow linewidth
- High-quality beam
- High-power beam combination

Specifications

	Product Code	FFRC-1500-NLW
Optical Parameters	Output Power (W)	> 1500
	Operating Mode	CW / Modulated
	Polarization State	Random
	Output Power Tunability (%)	10 - 100
	Beam Quality M ²	< 1.2
	Output power Instability 25°C (%)	< 2 (2 hours)
	Emission Wavelength (nm)	1050 < λ < 1090
	Center Wavelength Tolerance (nm)	± 0.25
	Spectral Width FWHM (nm)	< 1.0
	Modulation Frequency (kHz)	5
	Red Laser Power (μW)	> 200
Fiber Delivery Cable Parameters	Output Type	QBH / Bare Fiber
	Length(m)	5
	Core Diameter (μm)	20
	Minimum Bending Radius (mm)	200
Electrical Characteristics	Operating Voltage (VAC)	200 - 240, 1PH, 50 / 60Hz
	Max Power Consumption (kW)	5
	Control Mode	Serial Communication / AD
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)	> 15 (Laser), 1.5 - 2.5 (QBH)
	Water-cooling Pressure (Bar)	3 - 5
	Joint Diameter (mm)	12
	Dimension (mm)	W482 x D575 x H133 (include handles)
Weight (Kg)	30 ± 3	