

# 1500W QCW

## Air-cooled Fiber Laser

Everfoton's QCW Fiber Laser features multiple control modes, enabling continuous/quasi-continuous free switching and customer-defined pulse waveform output. The laser is stable in output energy, suitable for wide pulse and high peak out power applications. It is a perfect replacement for traditional YAG lasers and easier to maintain.



### Applications

- Excellent replacement for YAG laser
- Seam welding
- Drilling
- Precision cutting
- Spot welding on electronics
- Ceramic scribing

### Characteristics

- Build-in pulse editing software
- Air-cooled laser is easy to install
- Multiple brightness options available
- Precision controls on pulse energy and pulse counts
- Stable power at wide operating temperature range
- 48 VDC or 24 VDC input options

# Specifications

	Product Code	FFRQ-150/1500-A
<b>Optical Parameters</b>	Operating Mode	CW / Modulated
	Max Continuous Power (W)	250
	Max Pulse Average Power (W)	150
	Max Peak Power (W)	1500
	Max Pulse Energy (J)	15
	Pulses Width (ms)	0.01 - 50
	Output Power Tunability (%)	10 - 100
	Beam Quality M <sup>2</sup>	< 1.2 (14μm)
	Beam Quality BPP (mm x mrad)	< 3.0 (50μm)
	Output Power Instability 25°C (%)	< 1.5 (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	RQB
	Length (m)	5
	Core Diameter (μm)	14 / 50 / 100
	Minimum Bending Radius (mm)	200
<b>Electrical Characteristics</b>	Operating Voltage (V)	200 - 240, 1PH 50 / 60Hz/ 42 - 55 DC (Optional)
	Max Power Consumption (kW)	5.5
	Control Mode	RS232, AD
<b>Other Characteristics</b>	Operating Temperature (°C)	10 - 40
	Humidity (%)	10 - 80
	Waveform Editing (Series)	8
	Cooling Method	Air Cooled
	Dimension (mm)	W482x D575 x H133 (Include Handles)
	Weight (kg)	30 ± 3