

# VBP CW Fiber Laser

Everfoton's VBP Fiber Laser can offer a total output power of up to 12kW. It utilizes the self-developed ring beam fiber and combiner to provide core and ring output modes. The power is independently adjustable with a power ramp up and down function, ensuring no spattering during welding and significantly enhancing processing quality and efficiency.



## Applications

- Power battery pack
- Intelligent automobile manufacturing
- 3C electronics



## Characteristics

- Independently adjustable fiber core/ring core power
- Multiple protection against high reflection
- Waveform editing, Power ramp up and down
- Integrated remote monitoring

# SPECIFICATIONS

## Optical Characteristics

Model	FFSC-2000/2000-VBP
Operating Mode	CW / Modulated
Output Power (W)	4000
Core Output Power (W)	2000
Ring Output Power (W)	2000
Power Range (%)	10 - 100
Ring Beam Quality (mm x mrad)	Central < 4, Ring < 30
Output Power Instability at 25°C (%)	< ±1.5 (2 Hours)
Central Wavelength (nm)	1080 ± 5
Spectrum Width FWHM (nm)	5 - 8
Modulation Frequency (kHz)	5
Red Laser Power (µW)	> 200

## Output Cable Parameters

Output Mode	QBH
Cable Length (m)	15
Central Core Diameter (µm)	100
Ring Core Diameter (µm)	600
Bending Radius of Cable (mm)	200

## Electrical Characteristics

Operating Voltage (VAC)	340 - 420V, 3P4W 50 / 60Hz
Rated Power Consumption (kW)	12
Control Mode	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)	> 50 (Laser), 1.5 - 2.5 (QBH)
Water-cooling Pressure (Bar)	3 - 5
Joint Diameter (mm)	25
Minimum Cooling Capacity (kW)	8
Dimensions W*D*H (mm)	600 x 750 x 650 (excluding lights and casters)
Weight (kg)	180 ± 10