

4000-6000W

Variable Beam Profile Fiber Lasers

FFSC-2000/2000-V FFSC-3000/3000-V



Characteristics

- Instant adjustable beam profiles
- Independently tunable power levels in the central and ring regions
- Customized core and ring dimensions is available
- Intelligent process optimization tools
- Cost-effective solution for variety of metal process applications

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Applications

- Thin and thick sheet metals cutting
- Battery welding
- Zinc-coated steel welding
- Complex materials welding

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Specifications

Product Code	FFSC-2000/2000-V	FFSC-3000/3000-V
Optical Parameters		
Operating Mode	CW/Modulated	
Output Power (W)	4000	6000
Output Power Of Core (W)	2000	3000
Output Power Of Ring (W)	2000	3000
Output Power Tunability (%)	10 - 100	
Laser Beam Quality BPP (mm x mrad)	Central < 2.5 (50μm), Ring < 7.0 (150μm) Central < 4.0 (100μm), Ring < 17.0 (300μm)	
Output Power Instability 25°C (%)	< 2 (2 hours)	
Emission Wavelength (nm)	1080 ± 10	
Spectrum Width FWHM (nm)	< 6	
Modulation Frequency (kHz)	5	
Red Laser Power (μW)	> 200	
Fiber Delivery Cable Parameters		
Output Type	QBH	
Length (m)	15	
Central Core Diameter (μm)	50/100 (Customized)	
Ring Core Diameter (μm)	150/300 (Customized)	
Minimum Bending Radius (mm)	200	
Electrical Characteristics		
Operating Voltage (VAC)	340 - 420, 3P4W, 50/60Hz	
Max Power Consumption (kW)	12	18
Control Mode	RS232, 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)	> 70 (Laser), 1.5 - 2.5 (QBH)	
Water-cooling Pressure (Bar)	3 - 5	
Joint Diameter (mm)	32	
Min Cooling Capacity (kW)	7	12
Dimension (mm)	W600 x D750 x H615(not include lights)	
Weight (kg)	130 ± 10	150 ± 10



Everfoton Technologies Corporation Limited

Address . No.9 Optics Valley Avenue, Wuhan, Hubei, China

Post Code . 430073

Nanjing Fiberfoton Technologies Corporation Limited

Address . 9 Kechuang avenue, F 3, Jiangbei New District,

Nanjing, Jiangsu Post Code . 211505

Telephone . 027-65271788

Website . www.everfoton.com

Product pictures and information are for reference only, the company reserves the right to modify the manual and products, please refer to the actual situation.



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