300-500W

High-stability CW Fiber Lasers

FFRC-300-H/FFRC-500-H

Characteristics

- High beam quality
- Excellent long-term power stability
- Fast optical response time

Applications

- Metal 3D printing
- Precision metal cutting
- Precision metal welding

Specifications

Product Code	FFRC-300-H	FFRC-500-H
Optical Parameters		
Output Power (W)	300	500
Operating Mode	CW	
Polarization State	Random	
Output Power Tunability (%)	10 - 100	
Beam Quality M^2	< 1.2	
Output Power Instability 25℃ (%)	< 1 (8 hours)	
Emission Wavelength (nm)	1080 ± 10	
Spectrum Width FWHM (nm)	< 4	
PWM on Time (μs)	< 10	
Beam Circularity (%)	≥ 96	
Duty Cycle (%)	10 - 100	
Red Laser Power (μW)	> 200	
Fiber Delivery Cable Parameters		
Output Type	QBH/QCS	
Length (m)	3 (Customized)	
Core Diameter (μm)	14	
Armor Cable Diameter (mm)	9	
Min Bending Radius of Cable (mm)	150	
Electrical Characteristics		
Operating Voltage (VAC)	200 - 240, 1PH, 50/60Hz	
Control Mode	RS232/AD/Ethernet	
Max Power Consumption (kW)	1	1.5
Other Characteristics		
Operating Temperature (°C)	10 - 30	
Humidity (%)	10 - 80	
Storage Temperature (°C)	-20 to 60	
Cooling Method	Water Cooled	
Water-cooling Temperature (°C)	25 ± 1	
Water-cooling Flow (L/min)	> 10 (Laser), 1.5 - 2.5 (QBH)	
Water-cooling Pressure (Bar)	3 - 5	
Joint Diameter (mm)	12	
Dimension (mm)	W482 x D545 x H155 (include handles)	

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