MFSC
1000W~6000W
CW Welding / Cladding Fiber Laser Series

Product Feature

High Power Density with Flat-top Distribution
Cladding layer dilution rate less than **3%**

High Beam Spot Concentricity
Suitable for laser welding and cladding stereolithography
Reduce process commissioning time

Fiber Core Diameter Optional
800um, 1000um customized options
Wider fiber core diameter range makes our laser applicable to more applications such as cladding and hardening

QBH or LOE Output
Stronger anti-reflective ability with LOE output

High Level Vertical Integration
All key components are designed and produced in house
Strict quality control, high consistency and reliability

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MFSC-1000W-6000W CW Welding / Cladding Fiber Laser Series Specifications

Models	MFSC-1000W	MFSC-1500W	MFSC-2000W	MFSC-3000W	MFSC-4000W	MFSC-5000W	MFSC-6000W
OPTICAL SPECIFICATIONS							
Nominal Power	1000W	1500W	2000W	3000W	4000W	5000W	6000W
Mode of Operation	CW/Modulated						
Polarization	Random						
Power Tunability	10 to 100 %						
Wavelength	1080 ± 10 nm						
Power Stability	±1 %						
Laser Beam Quality, BPP	3.1 to 3.5 mm x mrad (100μmQBH)						
	6.4 to 7 mm x mrad (200μmQBH)						
	10 to 12 mm x mrad (300μmQBH)						
	15 to 17 mm x mrad (400μmQBH)						
	25 to 28 mm x mrad (600μmQBH)						
Modulation Frequency	⩽ 5 kHz						
Preview Red Light Power	200 μW						
FIBER DELIVERY SYSTEM							
Interface	QBH(LOC)						
Length	15/20m standard, other lengths optional						
Diameter	100/200/300/400/600 μm						
Bending Radius	200 mm						
ELECTRICAL RATINGS							
Supply Voltage	220VAC (-15% to +10%) Single-phase		400VAC (-15% to +10%) 3-phase				
OTHER SPECIFICATIONS							
Operating Temperature	+10 to +40 °C						
Storage Temperature	-10 to +60 °C						
Humidity	10 to 85 %						
Cooling Method	Water Cooling						
Cooling Medium	Distilled water/ Glycol Antifreeze						
Dimension	800×482.6×193.2 mm		483×950×193 mm		640×1173×1102 mm		
Weight	50(±3) kg	55(±3) kg	72(±3) kg	80(±3) kg	200(±20) kg	240(±20) kg	

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