

ELITE-SERIES

Single Module CW Fiber Lasers

MFSC-2000W to 4000W

Maxphotonics ELITE-Series is the cost and performance well-balanced product; it integrates the vast used and well-qualified optical components to get good cost-effective performance without reliability loss. This Elite series products are certified per PL-d(ISO 13849-1) with outstanding safety performance, the I/O interface can meet CNC system demanding requirement, and EtherCAT is optional.



PRODUCT FEATURES

- 🕒 Full Coverage Certificates, Including CE/FDA/ETL(UL)
- 🔧 Excellent Cost and Performance Compound
- ⚙️ Performance Level D(PL-d)
- 🔌 Multi-functional I/O Interface
- 📄 Plug and Play
- 💡 Good Power Redundancy



G5 QBH*



Standard QBH(optional)**

Elite-series offers more choices about QBH which can adapt to existing machining systems, creating more possibilities for optical solutions.

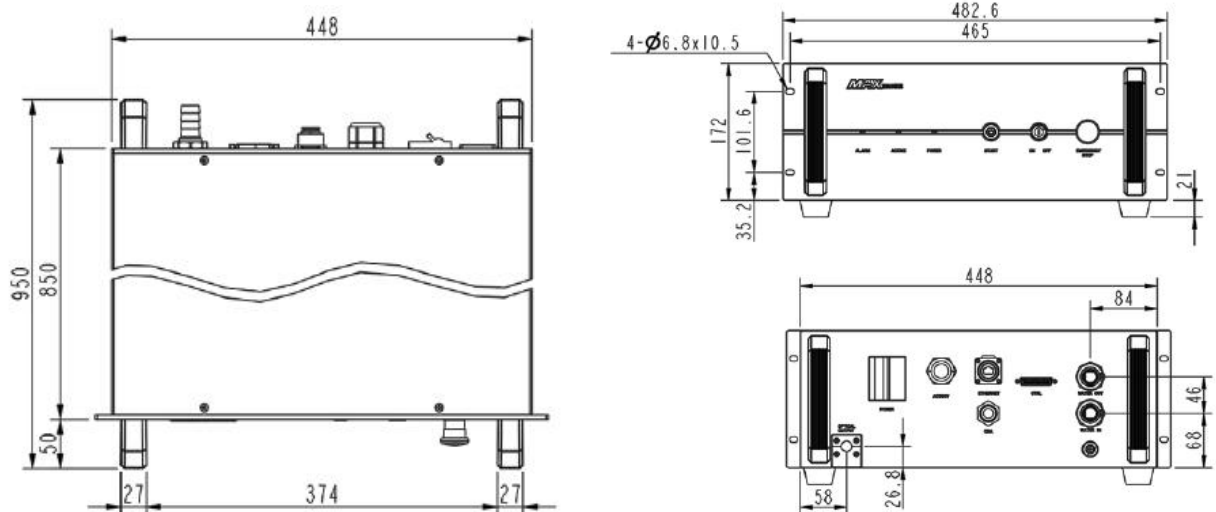
*Compatible with mainstream cutting heads

**Conventional QBH option is available

MFSC-2000W to 4000W_ELITE(RACK) SINGLE MODULE CW FIBER LASER SPECIFICATIONS

Models	MFSC-2000W	MFSC-3000W	MFSC-4000W
OPTICAL SPECIFICATIONS			
Nominal Power(W)	2000	3000	4000
Mode of Operation	CW/Modulated		
Polarization	Random		
Laser Beam Quality, BPP (mm*mrad)	1.0 to 2.0(@50μm fiber core)		
	3.0 to 4.0(@100μm fiber core)		
Wavelength(nm)	1080 ± 10		
Spectrum Width(3dB)(nm)	3 to 5		
Power Tunability(%)	10 to 100		
Power Instability(%): 1 hr	± 1		
Modulation Frequency(kHz)	≤ 5		
Red Guide Laser Power(μW)	200 to 1000(class 2)		
FIBER DELIVERY SYSTEM			
Interface	QBH G4.3 (QBH G5 optional)		
Length(m)	20		
Diameter(μm)	50 or 100		
Bending Radius(mm)	min. 200		
ELECTRICAL RATINGS			
Supply Voltage	400 ± 10% VAC 3P+PE @50/60 Hz		
OTHER SPECIFICATIONS			
Operating Temperature(°C)	10 to 40		
Storage Temperature(°C)	-10 to 60		
Humidity(%)	10 to 85		
Cooling Method	Water cooling		
Cooling Medium	Pure water (above 0°C)/Glycol antifreeze (below 0°C)		
Dimension(mm)	482.6*850*172 (excluding casters/warning lights, etc.)		
Weight(kg)	70 ± 3	70 ± 3	80 ± 3
Certificates	CE, FDA, ETL(UL compatible)		

MECHANICAL SPECIFICATIONS (mm)



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