

976 nm 50 W Pluggable Fiber Laser System

MS-A50/B50/C30



Features:

- 976/915/808nm wavelength
- Up to 50W output power
- 200μm core diameter, 0.22NA
- Pluggable fiber

Applications:

- Plastic welding
- Scientific research
- Laser Soldering

Specifications (25°C)		Unit	MS-A50	MS-B50	MS-C30
Optical Data ⁽¹⁾	CW Output Power	W	50	50	30
	Center wavelength	nm	976±10	915±10	808±10
	Spectral width (FWHM)	nm	< 6		
	Wavelength shift with temperature	nm/°C	0.3		
	Output power instability (25°C)	%	±3 (5 hours)		
	Power Range	%	10~100		
Fiber Data ⁽¹⁾	Core diameter	μm	200/400		
	Numeric aperture	-	0.22		
	Pluggable fiber	m	5 m/10 m, 3 mm armor, SMA905 male heads at both ends		
	Fiber termination	-	SMA905 female		
Electrical Data	Power supply	V	DC 24V		
	Input Current	A	< 7A		
	Power consumption	W	<150		
	Drive mode	-	Constant current		
	Emission mode	-	CW or Modulated 1 Hz to 20kHz,		
	Control mode	-	RS232, I/O		
	Modulation frequency	Hz	1~20K (DC>0.01%)		
	Modulation Pulse Width	-	20μs -950ms (Pulse)/20μs-999ms (Single Pulse)		
	Modulation Rise/Fall Time (Min. Value)	μs	≤10		
Aiming Beam Data ⁽²⁾	Center wavelength	nm	635±10nm		
	CW Output Power	mW	2		
Mechanical Parameters	Dimensions (L×W×H) ⁽³⁾	mm	242*156*120		
	Weight	kg	<5		
Others	Cooling method	-	Air cooling		
	Storage temperature ⁽⁴⁾	°C	5~50		
	Temperature Ambient in Operation ⁽⁴⁾	°C	15~30		
	Cooling requirement	-	Air cooling		
	Relative Humidity	%	5~80		
	Safety class	-	4 (EN 60825-01)		

(1) Consult Ephotonics for other available options.

(2) The aiming beam can be customized according to customer requirements.

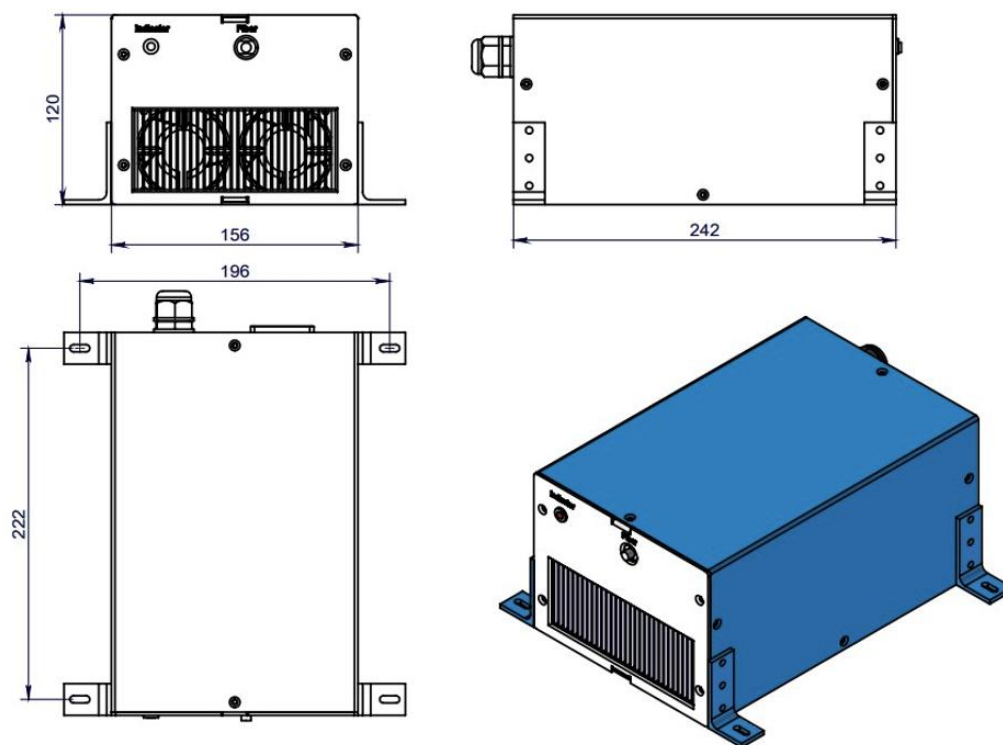
(3) The mechanical dimensions depend on the laser power and cooling mode.

(4) A non-condensing environment is required for operation and storage

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Package Dimensions (mm)



OPERATING NOTES

- Avoid eye and skin exposure to direct radiation during operation.
- Make sure the fiber output end is properly cleaned before operation of laser. Follow safety protocols to avoid injury when handling and cutting the fiber.
- Laser diode must be used according to the specifications.
- Temperature Ambient in Operation ranges from 15°C to 30°C.
- Storage temperature ranges from 5°C to 50°C.