



MSL-S series (1000-1100)



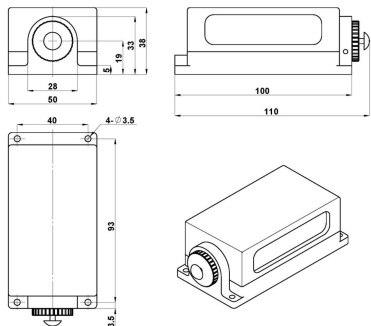
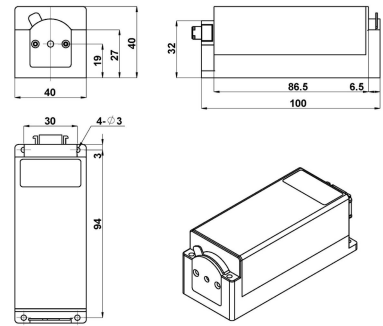
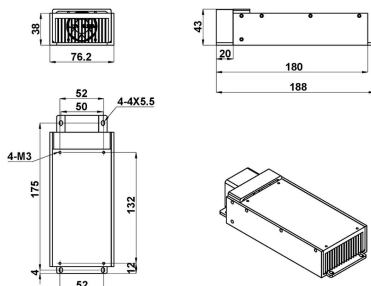
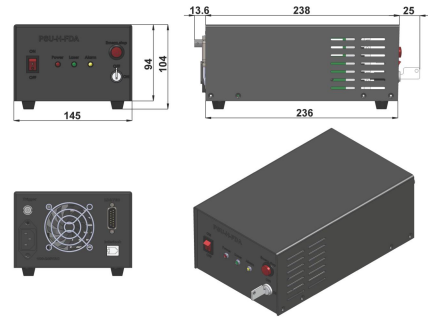
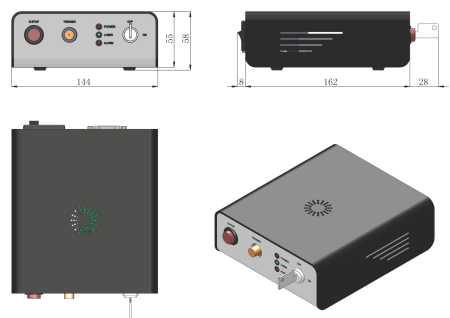
SINGLE LONGITUDINAL MODE LASER

All solid state single longitudinal mode laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.



SPECIFICATIONS

Model	MSL-S-1064-A (Harsh condition)		MSL-S-1064-B (Normal condition)	
Wavelength (nm)	1064±1			
Output power (mW) ¹	1-500	500-700	1-500	500-700
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%	<3%, <2%
Operating mode	CW			
Transverse mode	TEM ₀₀			
Longitudinal mode	Single			
Spectral line width	<1MHz			
Noise of amplitude (rms, 20Hz-20MHz)	<0.5%			
Coherent length (m)	>50			
M ²	<1.2			
Beam diameter at the aperture (1/e ² , mm)	1.00±0.05			
Beam divergence, full angle (mrad)	<1.7			
Polarization Ratio	/			
Warm-up time (minutes)	<5			
Pointing Stability(μrad) (over 2 hours after warm-up and ±3°C)	<50			
Pointing Stability Over Temperature(μrad/°C)	<8			
Frequency shift over 8 hours (MHz) (Optional)	<±200			
Frequency shift with Temp (MHz/°C) (Optional)	<200			
Beam height from base plate (mm)	19			
Power Consumption(W)	<40			
Fiber	/		Multimode/ Single Mode	
Shock Tolerance(6ms)	7g laterally,15g vertically			
IP Rating	IP67		IP65	
Max. Heat Dissipation of Head(W)	10W@50°C		4W@25°C	
Operating Temperature (°C)	0-60		10-35	
Power supply (100-240VAC)	PSU-H-FDA		PSU-A-F	
Expected lifetime (hours)	>10000			

LASER HEAD (Harsh condition) ²	LASER HEAD (Normal condition) ²	HEATSINK(OPTIONAL TC-04-FS)
 110(L)×50(W) ×38(H) mm³, 0.6 kg	 100 (L) ×40 (W) ×40(H) mm³, 0.36kg	 188(L)×76.2(W)×43(H) mm³, 0.65 kg
POWER SUPPLY (PSU-H-FDA) ³	POWER SUPPLY (PSU-A-F) ³	
 276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg	 198(L) × 144(W) × 58(H) mm³, 0.5kg	

- 1.Any power level can be selected in this range.
- 2.The laser head needs to be used on a heat sink with good heat dissipation.
- 3.Fixed output power.