



MSL-FN series



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.

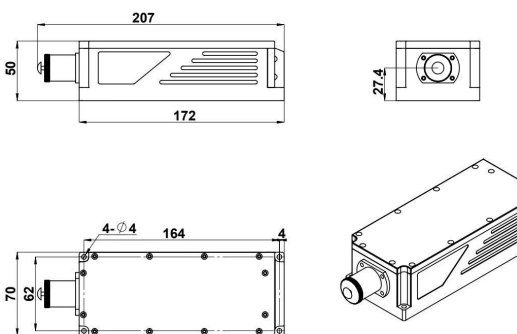
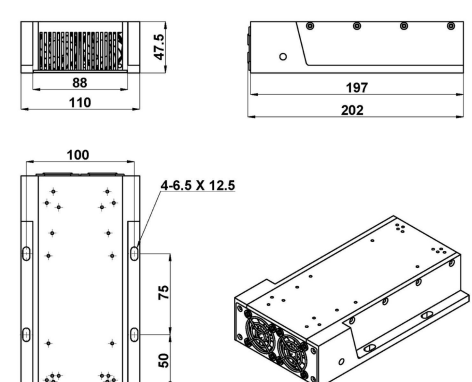
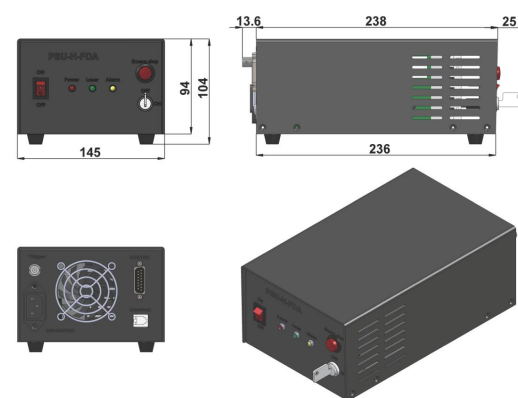


SPECIFICATIONS

Wavelength (nm)	607±1	639±1	656.5±1	660±1	671±1	698±1	721±1
Output power (mW) ¹	1-200	1-650	1-100		1-500	1-300	
Power stability (rms, over 4 hours)	<3%, <2%, <1%, (<0.5% optional)		<3%, <2%, <1%				
Transverse mode	TEM ₀₀						
Longitudinal mode	Single						
Operating mode	CW						
Spectral line width (nm)	<1MHz						
Coherent length (m)	>50						
Noise of amplitude (rms, 20Hz~20MHz)	<1%, <0.5%						
M ²	<1.2	<1.2,<1.1	<1.2				
Beam diameter at the aperture (1/e ² , mm)	<1.5		<2.0			<1.5	
Beam divergence, full angle (mrad)	<1.2	<1.5	<1.2			<1.5	<1.2
Polarization Ratio	>100:1, Horizontall (Vertica Optional)		>100:1, Vertica (Horizontall Optional)				
Warm-up time (minutes)	<10						
Pointing stability (urad)(over 2 hours after warm-up and ±3℃)	<50						
Pointing stability Over Temperature(urad/℃)	<8						
Frequency shift (MHz)(Over ±2℃ and 8hrs) (Optional)	<±200						
Frequency shift with Temp (MHz/℃) (Optional)	<200						
Beam height from base plate (mm)	27.4						
Laser head consumption(W)	15 (typical) , <25 (40℃)						
Max. Laser Head Base plate Temp (℃)	50						
Operating Temperature (℃)	10-35						
Power supply (100-240VAC)	PSU-H-FDA						
Expected lifetime (hours)	>10000						

Note: The laser head needs to be used on a heat sink with good heat dissipation.



LASER HEAD	HEATSINK(OPTIONAL TC-02-FS)	POWER SUPPLY(PSU-H-FDA) ²
 207(L)×70(W)×50(H) mm³, 1.5 kg	 202(L)×110(W)×47.5(H) mm³, 1.25 kg	 276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg

1 Any power level can be selected in this range.

2 Fixed output power.