



MSL-FN series (601-800nm)



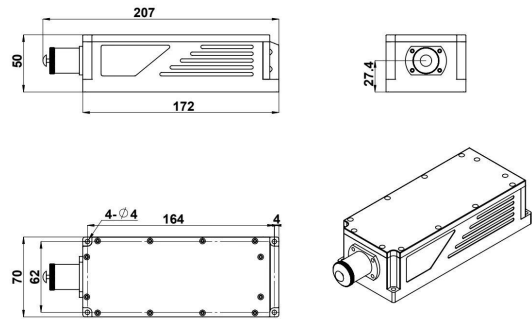
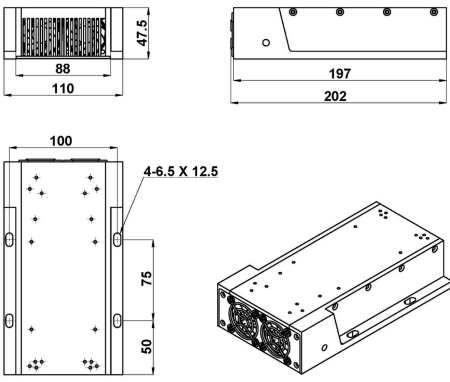
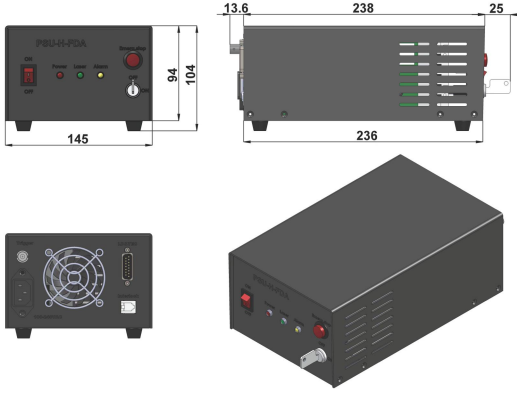
SINGLE LONGITUDINAL MODE LASER

All-solid-state, single-longitudinal-mode laser features an ultra-compact design, long lifetime, and easy operation. It is used in DNA sequencing, flow cytometry, cell sorting, optical instruments, spectrum analysis, interference, measurement, holography, and physics experiments, 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, 4 hours ±3°C)	<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, Horizontal (Vertical optional)			>100:1, Vertical (Horizontal optional)			
Warm-up time (minutes)	<10						
Pointing stability (urad) (over 2 hours after warm-up and ±3°C)	<50						
Pointing stability over temperature (urad/°C)	<8						
Frequency shift (MHz) (over ±2°C and 8hrs) (optional)	<±200						
Frequency shift with temp (MHz/°C) (optional)	<200						
Beam height from base plate (mm)	27.4						
Laser head consumption (W)	15 (typical) , <25 (40°C)						
Operating temperature (°C)	10-35						
Power supply (100-240VAC)	PSU-H-FDA						
Expected lifetime (hours)	>10000						

LASER HEAD ²	HEATSINK (optionl TC-02-FS)	POWER SUPPLY (PSU-H-FDA) ³
 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 The laser head needs to be used on a heat sink with good heat dissipation.

3 Fixed output power.