



MSL-FN series (601-800nm)



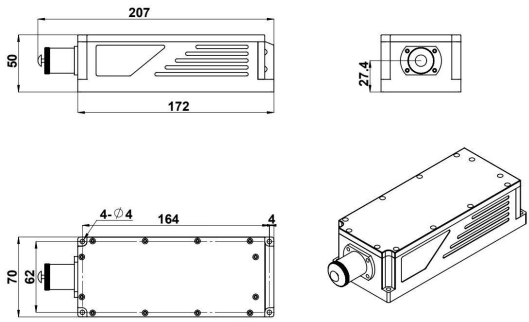
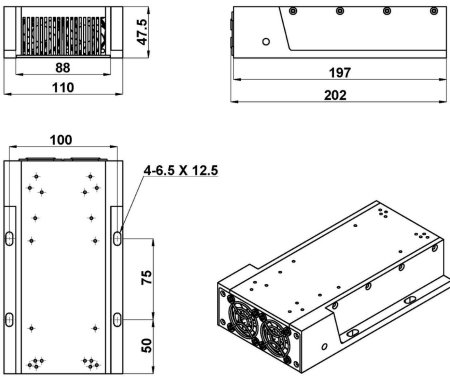
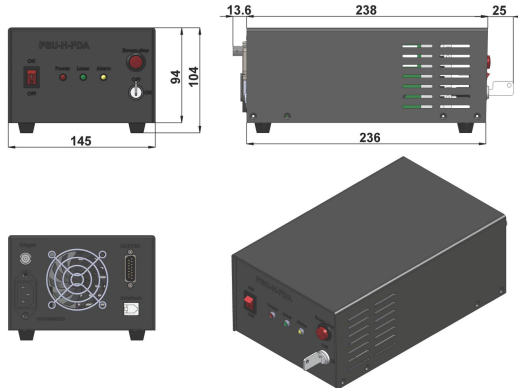
SINGLE LONGITUDINAL MODE LASER

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.