



MSL-S-xxx-S series

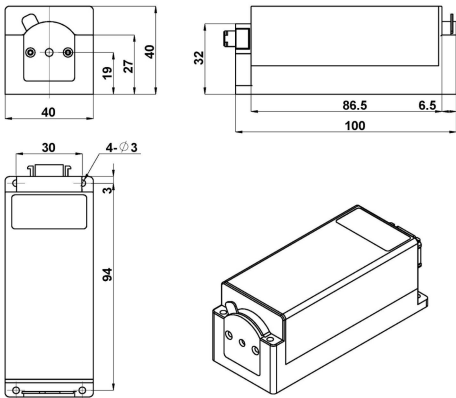
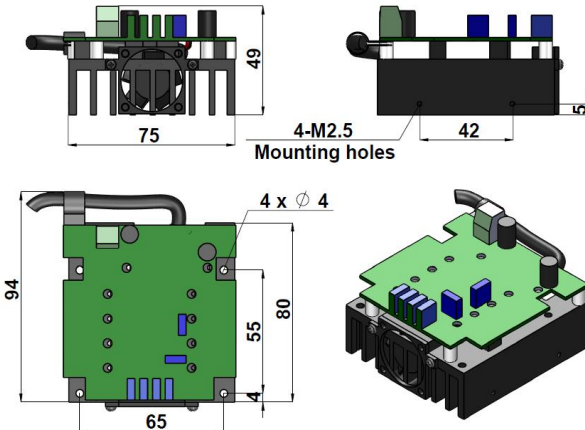
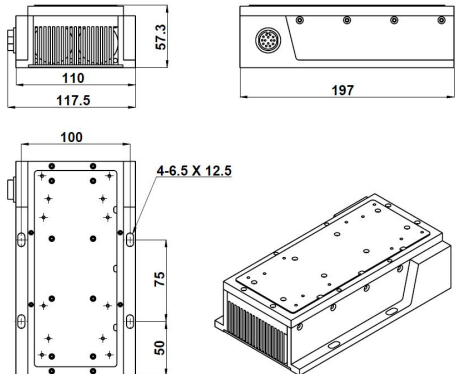
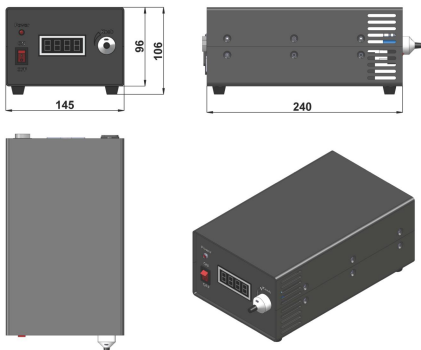
FREQUENCY STABILIZED SLM LASER

Single longitudinal mode, frequency stabilized laser is made features of stable frequency and low frequency noise, which is used in optical frequency standards, gravitational wave detection, tests of fundamental physics, atomic clocks, high resolution spectrum, Laser Radar, precision measurement, etc.

SPECIFICATIONS



Wavelength (nm)	532±2	1064±1	
Output power (mW)	1-100	1-500	500-700
Power stability (rms, over 4 hours)	<5%, <3%, <1%	<3%, <2%, <1%	<3%, <2%
Operating mode	CW		
Transverse mode	TEM ₀₀		
Longitudinal mode	Single		
Spectral line width (nm)	<0.00001		
Noise of amplitude (rms, 20Hz~20MHz)	<0.5%		
Coherent length (m)	>50		
M ² factor	<1.2		
Beam diameter at the aperture (1/e ² , mm)	<1.0	1.00±0.05	
Beam divergence, full angle (mrad)	<1.5	<1.7	
Polarization Ratio	>100:1, Horizontal (Vertical Optional)	/	
Warm-up time (minutes)	<5		
Pointing stability Over Temp. (μrad/°C)	<8		
Pointing stability after warm-up (mrad)	<0.05		
Beam height from base plate at TC-01 (mm)	76.3		
Extra heat sink	TC-01		
Power Consumption(W)	<30	<40	
Shock Tolerance(6ms)	7g laterally,15g vertically		
IP Rating	IP65		
Max. Heat Dissipation of Head(W)	4W@25°C		
Operating Temperature (°C)	10-35		
Power supply (90-264VAC)	PSU-A-F/PSU-III-OEM-97 (5VDC)		
Modulation	Modulation isn't available.		
Expected lifetime (hours)	10000		
Warranty	1 year		

LASER HEAD	POWER SUPPLY (PSU-A-F)	POWER SUPPLY (PSU-III-OEM-97)
 100 (L) × 40 (W) × 40(H) mm³, 0.36kg	 162(L) × 144(W) × 55(H) mm³, 0.5kg	 94(L) × 75(W) × 49(H) mm³, 0.23kg
TC-01 HEAT SINK	TC-01 HEAT SINK POWER SUPPLY	
 197(L) × 117.5(W) × 57.3(H) mm³, 1.6 kg	 277(L) × 145(W) × 106(H) mm³, 2.6 kg	