



MLL-S series



LD PUMPED ALL-SOLID-STATE LOW NOISE LASER

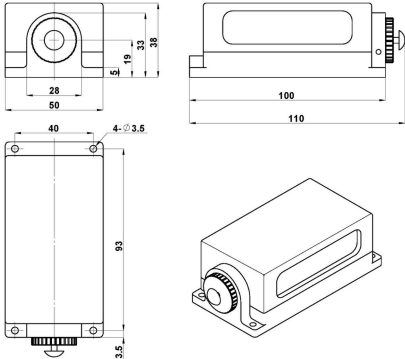
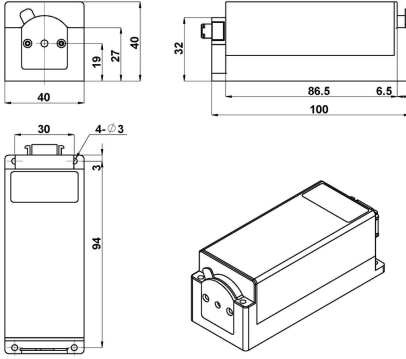
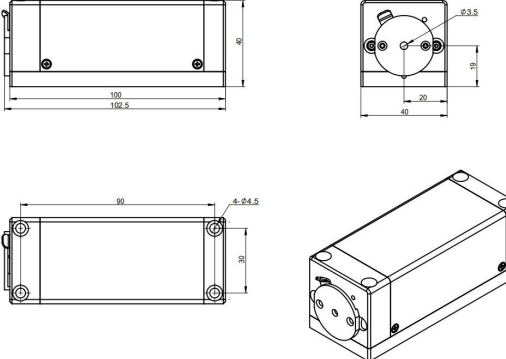
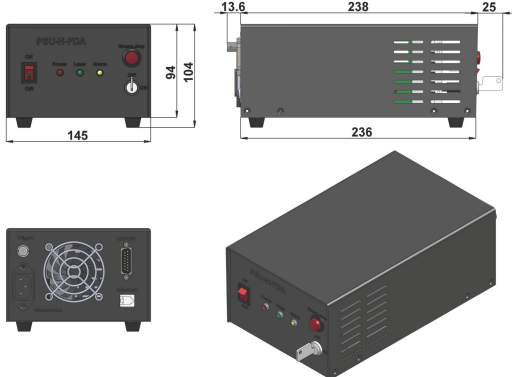
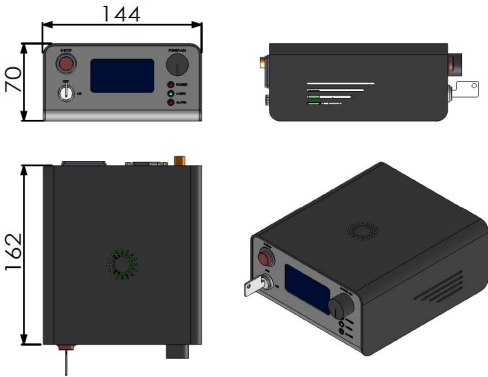
All solid state laser is made features of ultra compact, small size, wide operating temperature, good sealing, long lifetime, cost -effectiveness and easy operating, working under the pressure of 0.02kPa, which is widely used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, laser printing, chip inspection, physics experiment, etc.



SPECIFICATIONS

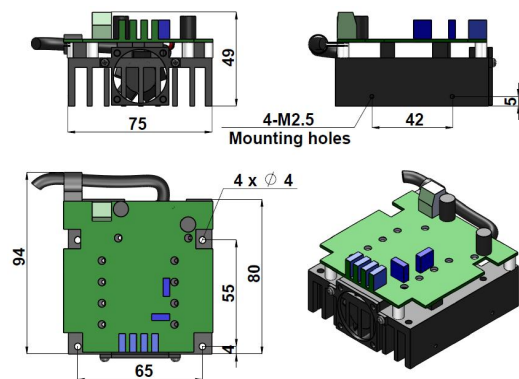
Model	MLL-S-532-A (Harsh condition)	MLL-S-532-B (Normal condition)	MLL-S-532-D (Normal condition)	MLL-S-1064-A (Harsh condition)		MLL-S-1064-B (Normal condition)	
Central wavelength (nm)	532±1			1064±1			
Operating mode	CW			CW			
Output power (mW)	1-300			1-400	400-1500	1-400	400-1500
Power stability (rms, over 4 hours)	<3%, <2%, <1%			<3%, <2%, <1%	<3%, <2%, <1%	<3%, <2%, <1%	<3%, <2%, <1%
Transverse mode	TEM ₀₀						
Spectral line width (nm)	<0.1 (<0.003 optional @1-100mW)			<0.1			
Noise of amplitude (rms, 20Hz~20MHz)	<1%, <0.5%						
M ² factor	<1.2, <1.1			<1.2			
Beam diameter at the aperture (1/e ² , mm)	<1.0						
Beam divergence, full angle (mrad)	<1.5						
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 (mm)	19						
Laser head consumption(W)	<40						
Shock Tolerance(6ms)	7g laterally, 15g vertically						
Max. Laser Head Base plate Temp (°C)	10W@50°C	4W@25°C	/	10W@50°C		4W@25°C	
Operating Temperature (°C)	0-60	10-35	15-35	0-60		10-35	
IP Rating	IP67	IP65	/	IP67		IP65	
Power supply (90-264VAC)	PSU-H-FDA	PSU-A-D/PSU-A-F /PSU-III-OEM-97 (5VDC)	12V DC (220VAC Controller Optional)	PSU-H-FDA		PSU-A-D/PSU-A-F /PSU-III-OEM-97 (5VDC)	
Modulation	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation optional						
Expected lifetime (hours)	10000						
Warranty	1 year						

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

LASER HEAD (A)	LASER HEAD (B)	LASER HEAD (D)
 245.5(L)×88(W)×74(H) mm³, 2.0 kg	 100 (L) ×40 (W) ×40(H) mm³, 0.36kg	 102.5(L) ×40(W) ×40(H) mm³, 0.26 kg
POWER SUPPLY (PSU-H-FDA)	POWER SUPPLY (PSU-A-D)	POWER SUPPLY (PSU-A-F)
 276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg	 162 (L) × 144(W) ×70(H) mm³, 0.6kg	 162(L) × 144(W) ×55(H) mm³, 0.5kg



POWER SUPPLY (PSU-III-OEM-97)



94(L)×75(W)×49(H)mm3, 0.23kg