



MLL-S series (500-560nm)



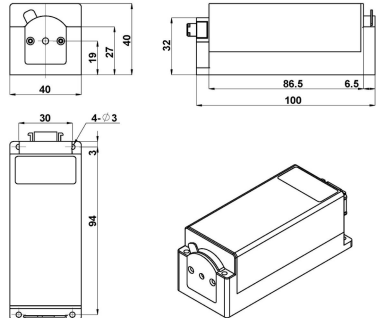
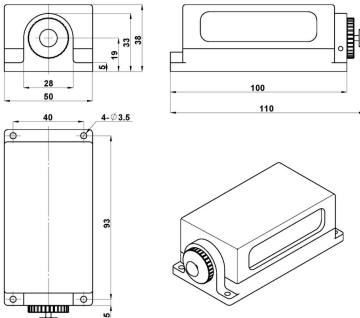
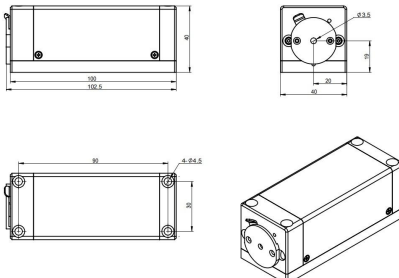
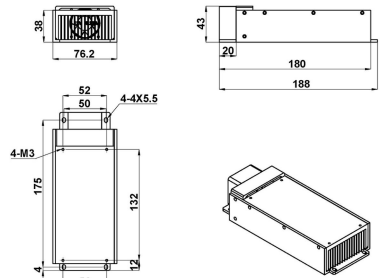
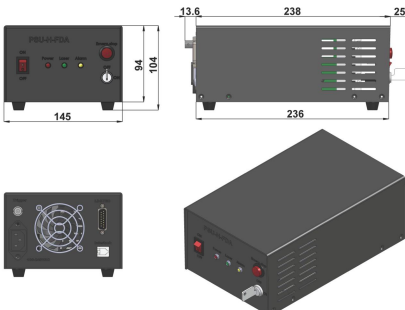
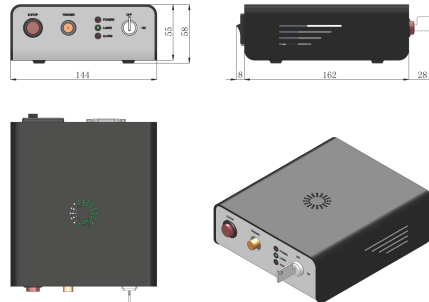
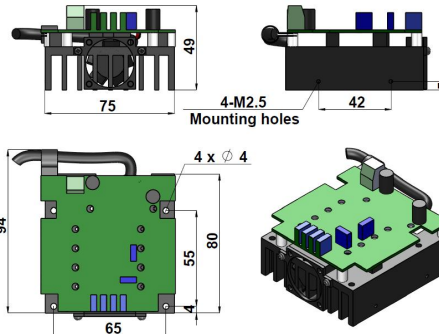
LD PUMPED ALL-SOLID-STATE LOW NOISE LASER

All-solid-state laser is characterized by an ultra-compact size, a wide operating temperature range, excellent sealing, a long lifetime, cost-effectiveness, and easy operation. It operates at a low pressure of 0.02kPa and is widely used in DNA sequencing, flow cytometry, cell sorting, optical instruments, spectral analysis, interference, measurement, holography, laser printing, chip inspection, physics experiment, and more.



SPECIFICATIONS

Model	MLL-S-532	MLL-S-532-A (Harsh condition)	MLL-S-532-D (Normal condition)
Central wavelength (nm)	532 ± 1		
Operating mode	CW		
Output power (mW) ¹	1-300		
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%, (<0.5% @ 1-100mW)		
Transverse mode	TEM ₀₀		
Spectral line width (nm)	<0.1, (<0.003 optional @ 1-100mW)		
Noise of amplitude (rms, 20-20MHz)	<1%, <0.5%		
M ²	<1.2, <1.1		
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 (μrad) (over 2 hours after warm-up and ±3°C)	<50		
Pointing stability over temperature (μrad/°C)	<8		
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)	4W@25°C	10W@25°C	/
Operating temperature (°C)	10-35	0-60	15-35
IP rating	IP65	IP67	/
Power supply (100-240VAC)	PSU-A-F	PSU-H-FDA	/
Operating voltage (VAC)	PSU-III-OEM-97 (5V/5A)	/	12VDC (220VAC Controller optional)
Expected lifetime (hours)	>10000		

LASER HEAD ²	LASER HEAD (Harsh condition) ²	LASER HEAD (MLL-S-532-D) ²	HEATSINK (optional TC-04-FS)
 100 (L) × 40 (W) × 40 (H) mm³, 0.36kg	 110(L)×50(W) ×38(H) mm³, 0.6 kg	 102.5(L) × 40(W) × 40(H) mm³, 0.36 kg	 188(L)×76.2(W)×43(H) mm³, 0.65 kg
POWER SUPPLY (PSU-H-FDA) ³	POWER SUPPLY (PSU-A-F) ³	DRIVER (PSU-III-OEM-97) ³	
 276.6(L) × 145(W) × 103.6(H) mm³, 2.3 kg	 198(L) × 144(W) × 58(H) mm³, 0.5kg	 94(L) × 75(W) × 49(H) mm³, 0.23kg	

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.