



MGL-S series (500-580nm)



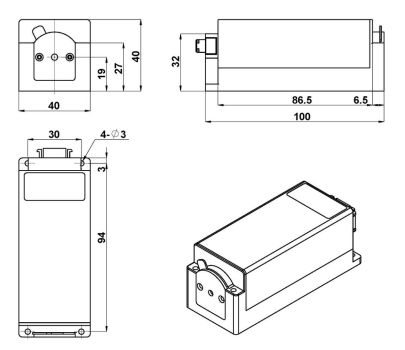
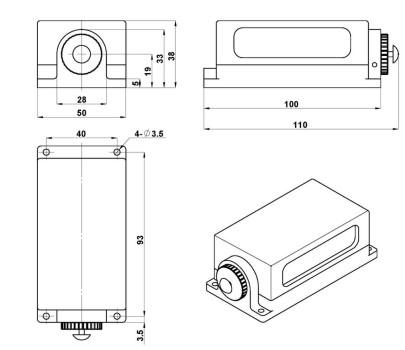
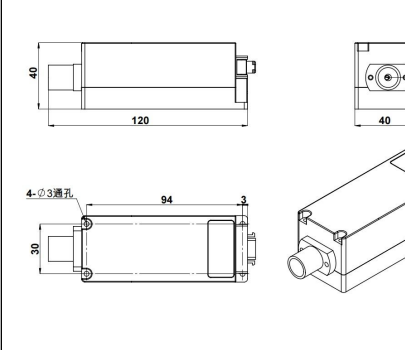
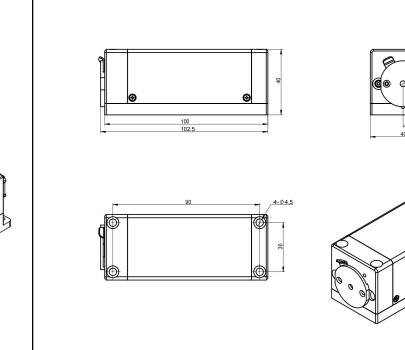
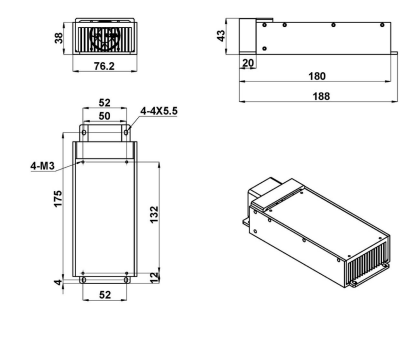
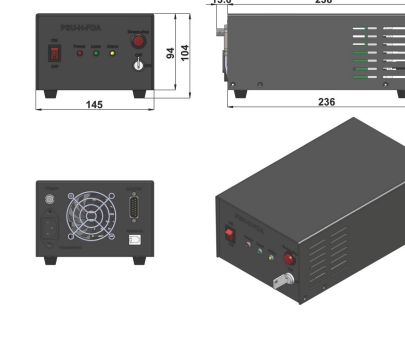
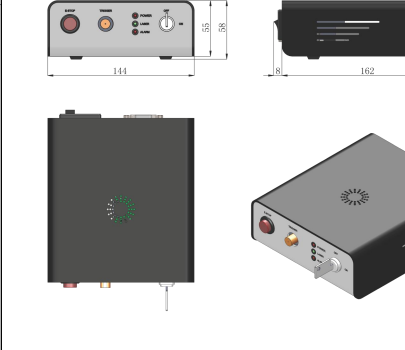
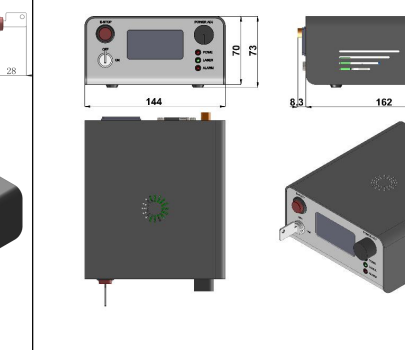
LD PUMPED ALL-SOLID-STATE LASER

The all-solid-state laser features high output power stability, a good beam profile, an ultra-compact size, a wide operating temperature range, excellent sealing, a long lifetime, cost-effectiveness, and easy operation. It is capable of working under a low pressure of 0.02 kPa and is widely used in various applications, including collimation, laser medical treatment, scientific experiments, optical instrumentation, laser displays, and laser lighting shows.



SPECIFICATIONS

Model	MGL-S-532	MGL-S-532-A (Harsh condition)	MGL-S-532-D		MGL-S-561	MGL-S-577	MGL-S-577-A (Harsh condition)
Wavelength (nm)	532±1				561±1	577±2	
Operating mode	CW						
Output power (mW) ¹	1-300		1-100	100-300	1-80	1-30	
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%, (<0.5%@1-100mW)		<1%, <0.5%	<1%	<3%, <2%, <1%		
Transverse mode	TEM ₀₀						
M ²	<1.2, <1.1				<1.2		
Beam diameter at the aperture (1/e ² , mm)	<1.0						
Beam divergence (mrad)	<1.5						
Polarization ratio	>100:1, Horizontal (Vertical optional)				>100:1, Vertical (Horizontal optional)	>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		<6		<8		
Beam height from base plate (mm)	19						
Power consumption (W)	<30		<10		<30		
Fiber (optional)	/	Multi mode/Single moode			/		Multi mode/Single mode
Shock tolerance (6ms)	7g laterally, 15g vertically						
Max. heat dissipation of head (W)	4W@25°C	10W@50°C	/			4W@25°C	10W@50°C
IP rating	IP65	IP67	/		IP65		IP67
Operating temperature (°C)	10-35	0-60	10-35				0-60
Modulation optional	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional						
Power supply (100-240VAC)	PSU-A-F/ PSU-A-D	PSU-H-FDA	/		PSU-A-F/ PSU-A-D		PSU-H-FDA
Power supply (12VDC)	/		12VDC (Photoelectric integrated)		/		
Expected lifetime (hours)	>10000						

LASER HEAD ²	LASER HEAD (Harsh condition) ²	LASER HEAD (MGL-S-561) ²	LASER HEAD (MGL-S-532-D) ²
 100 (L) × 40 (W) × 40 (H) mm³, 0.36kg	 245.5 (L) × 88 (W) × 74 (H) mm³, 2.0kg	 120 (L) × 40 (W) × 40 (H) mm³, 0.37kg	 102.5 (L) × 40 (W) × 40 (H) mm³, 0.36kg
HEATSINK (optional TC-04-FS)	POWER SUPPLY (PSU-H-FDA) ³	POWER SUPPLY (PSU-A-F) ³	POWER SUPPLY (PSU-A-D) ⁴
 188 (L) × 76.2 (W) × 43 (H) mm³, 0.65kg	 276.6 (L) × 145 (W) × 103.6 (H) mm³, 2.3kg	 198 (L) × 144 (W) × 58 (H) mm³, 0.5kg	 198.3 (L) × 144 (W) × 73 (H) mm³, 0.6kg

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.

4 Output power adjustable 10-100%; RS232 control optional.