



MGL-S series (500-580nm)



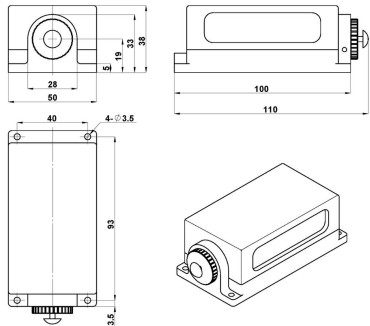
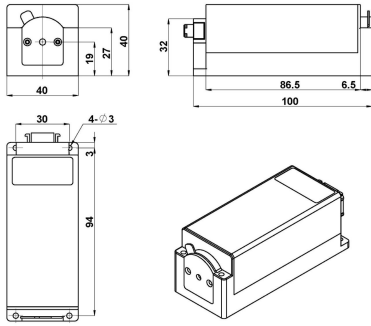
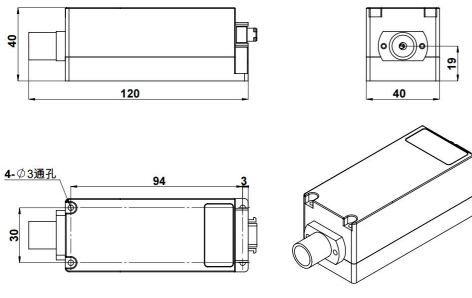
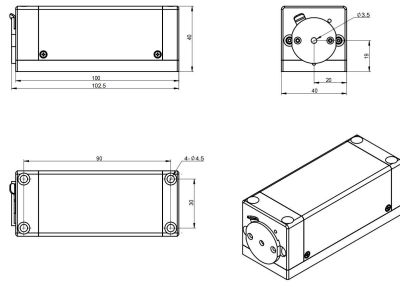
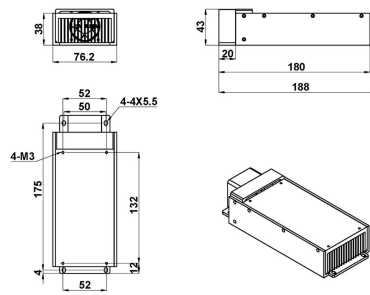
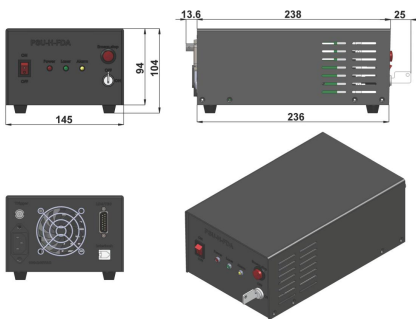
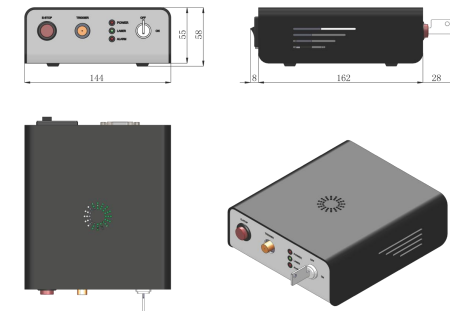
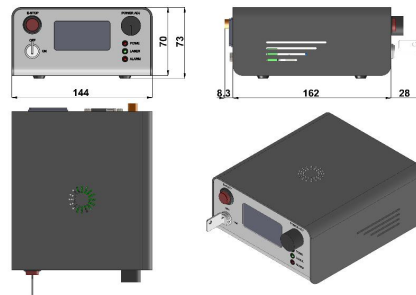
LD PUMPED ALL-SOLID-STATE LASER

All solid state laser is made features of high output power stability, good beam profile, 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 collimation, laser medical treatment, scientific experiment, optical instrument, laser display, laser lighting show, etc.



SPECIFICATIONS

Model	MGL-S-532-A (Harsh condition)	MGL-S-532-B (Normal condition)	MGL-S-532-D		MGL-S-561 (Normal condition)	MGL-S-577-A (Harsh condition)	MGL-S-577-B (Normal 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, over 4 hours)	<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, full angle (mrad)	<1.5						
Polarization ratio	>100:1, Horizontal (Vertical optional)				>100:1, Vertical (Horizontal optional)	>100:1, Horizontal (Vertical optional)	
Pointing Stability(μrad) (over 2 hours after warm-up and ±3°C)	<50						
Pointing Stability Over Temperature(μrad/°C)	<8		<6		<8		
Warm-up time (minutes)	<5						
Beam height from base plate (mm)	19						
Power Consumption(W)	<30		<10		<30		
Fiber(optional)	/	Multi mode/Single Mode				/	Multi mode/Single Mode
Shock Tolerance(6ms)	7g laterally, 15g vertically						
IP Rating	IP67	IP65	/		IP65	IP67	IP65
Power supply(100-240VAC)	PSU-H-FDA	PSU-A-F/ PSU-A-D	/		PSU-A-F/ PSU-A-D	PSU-H-FDA	PSU-A-F/ PSU-A-D
Operating voltage (VAC)	/	/	12V DC (Photoelectric integrated)		/	/	/
Operating temperature (°C)	0-60	10-35	10-35 5-50@Storage temperature (°C)		10-35	0-60	10-35
Max. Heat Dissipation of Head(W)	10W@50°C	4W@25°C	/		/	10W@50°C	4W@25°C
Modulation optional	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional						
Expected lifetime (hours)	>10000						

LASER HEAD (Harsh condition) ²	LASER HEAD (Normal condition) ²	LASER HEAD (MGL-S-561) ²	LASER HEAD (MGL-S-532-D) ²
 110(L)×50(W)×38(H) mm³, 0.6 kg	 100 (L) ×40 (W) ×40(H) mm³, 0.36kg	 120 (L) ×40 (W) ×40(H) mm³, 0.37kg	 102.5(L)×40(W)×40(H) mm³
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, 0.65 kg	 276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg	 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.