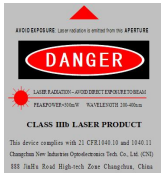
MGL-S series

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)	1-300		1-300	1-50	1-30	
Power stability (rms, over 4 hours)	<3%, <2%, <1%		<1%	<3%, <2%, <1%	<3%, <2%, <1%	
Transverse mode	TEM_{00}					
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)			>100:1, Vertical (Horizontal Optional)	>100:1, Horizontal (Vertical Optional)	
Pointing stability after warm-up (mrad)	<0.05					
Pointing stability Over Temp. (μrad/°C)	<8		<6	<8		
Warm-up time (minutes)	<5					
Beam height from base plate (mm)	19					
Power Consumption(W)	<30		<6	<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(90-264VAC)	PSU-H-FDA	PSU-A-D/ PSU-A-F	12V DC (Photoelectric integrated)	PSU-A-D/ PSU-A-F	PSU-H-FDA	PSU-A-D/ PSU-A-F
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	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.

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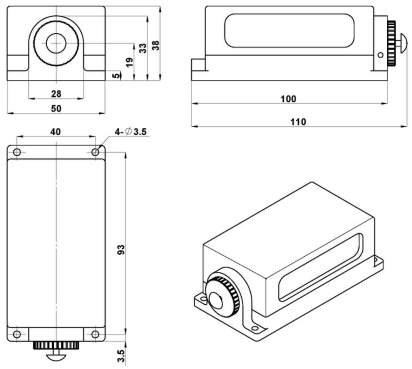
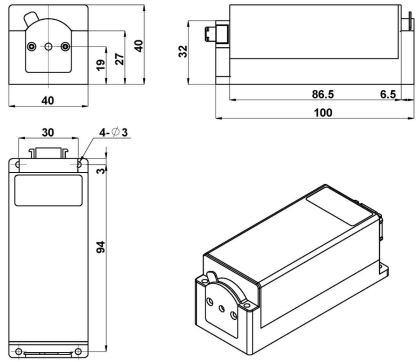
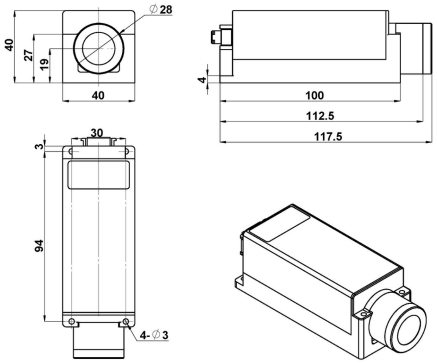
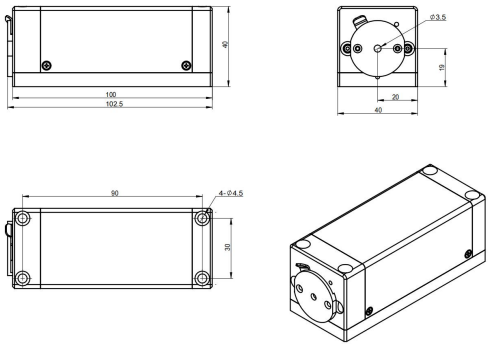
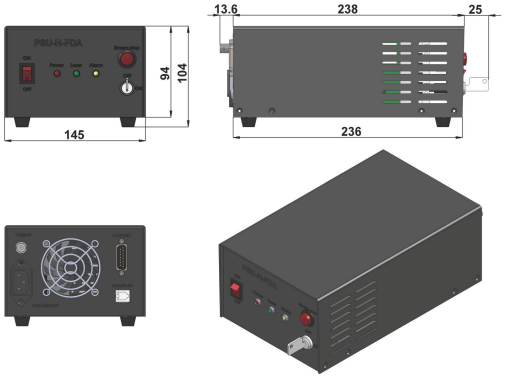
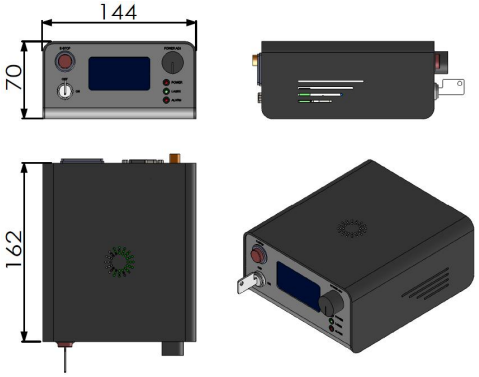
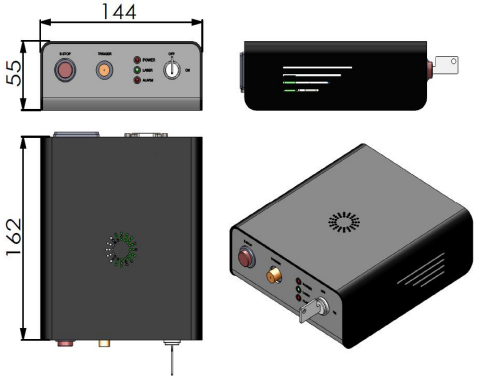
SPECIFICATIONS

Model	MGL-S-588-A (Harsh condition)	MGL-S-588-B (Normal condition)	MGL-S-589-A (Harsh condition)	MGL-S-589-B (Normal condition)
Wavelength (nm)	588±2		589±1	
Operating mode	CW			
Output power (mW)	1-50		1-50	
Power stability (rms, over 4 hours)	<3%, <2%, <1%		<3%, <2%, <1%	
Transverse mode	TEM_{00}			
M^2 factor	<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)			
Pointing stability after warm-up (mrad)	<0.05			
Pointing stability Over Temp. (μrad/°C)	<8			
Warm-up time (minutes)	<5			
Beam height from base plate (mm)	19			
Power Consumption(W)	<30			
Shock Tolerance(6ms)	7g laterally, 15g vertically			
IP Rating	IP67	IP65	IP67	IP65
Power supply(90-264VAC)	PSU-H-FDA	PSU-A-D/ PSU-A-F	PSU-H-FDA	PSU-A-D/ PSU-A-F
Operating temperature (℃)	0-60	10-35	0-60	10-35
Max. Heat Dissipation of Head(W)	10W@50℃	4W@25℃	10W@50℃	4W@25℃
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 (Harsh condition)	LASER HEAD (Normal condition)	LASER HEAD (MGL-S-561)
		
110(L)×50(W) ×38(H) mm³, 0.6 kg	**100 (L) ×40 (W) ×40(H) mm³, 0.36kg**	**117.5 (L) ×40 (W) ×40(H) mm³, 0.36kg**

LASER HEAD (MGL-S-532-D)		
		
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) mm^3, 2.3 kg	**162 (L) × 144(W) ×70(H) mm^3, 0.6kg**	**162(L) × 144(W) ×55(H) mm^3, 0.5kg**