

MGL-FN series (500-540nm)



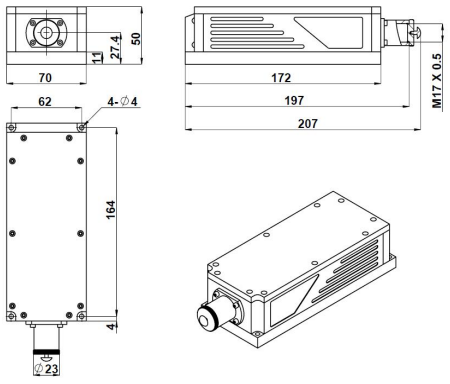
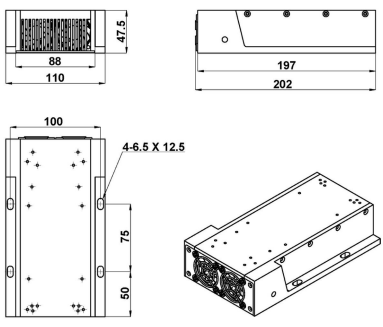
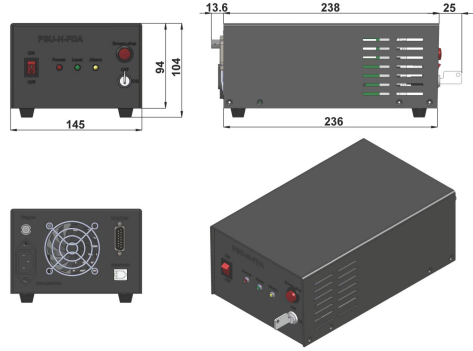
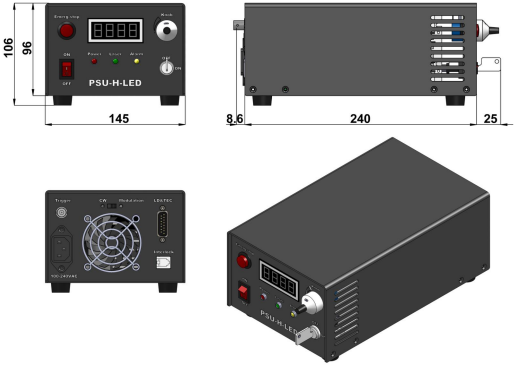
LD PUMPED ALL-SOLID-STATE LASER

All-solid-state lasers feature high output power stability, a good beam profile, a compact design, a long lifetime, and easy operation. As a result, they are widely used in collimation, medical laser treatments, scientific experiments, optical instruments, and other fields.



SPECIFICATIONS

Part number	MGL-FN-522	MGL-FN-523.5		MGL-FN-526.5	MGL-FN-532		MGL-FN-536	MGL-FN-537	MGL-FN-540	
Wavelength (nm)	522±1	523.5±1		526.5±1	532±1		536±1	537±1	540±1	
Operating mode	CW									
Output power (mW) ¹	1-800	1-400	400-800	1-600	300-3000	3000-4000	1-500	1-30	1-200	200-500
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%					<3%, <2%	<3%, <2%, <1%			
Transverse mode	TEM ₀₀									
M ²	<1.2		<1.5		<1.2, <1.1	<1.5				
Beam diameter at the aperture (1/e ² , mm)	<1.0	<1.2	<1.5		~2.0		<2.0			<1.5
Beam divergence, full angle (mrad)	<1.5									
Polarization Ratio	>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									
Beam height from base plate (mm)	27.4									
Operating temperature (°C)	10-35									
Modulation optional	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional									
Power supply (100-240VAC)	PSU-H-FDA/PSU-H-LED/PSU-SR									
Expected lifetime (hours)	>10000									

LASER HEAD ²	HEATSINK (optional TC-02-FS)	POWER SUPPLY (PSU-H-FDA) ³
 207(L)×70(W)×50(H) mm³, 1.5 kg	 202(L)×110(W)×47.5(H) mm³, 1.25 kg	 276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg
POWER SUPPLY (PSU-H-LED) ⁴	POWER SUPPLY (PSU-SR) ⁴	
 273.6 (L) ×145(W) ×106 (H) mm³, 2.3 kg	 188(L) ×145(W) ×83(H) mm³, 1.2kg	

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.