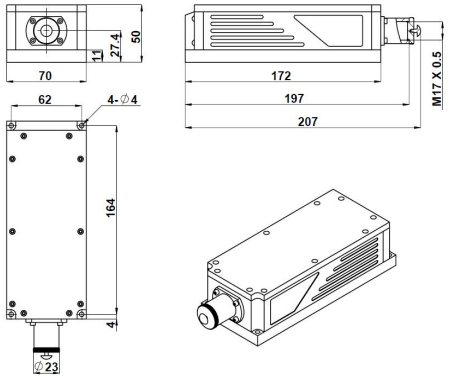
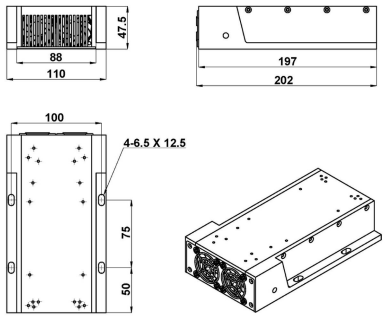
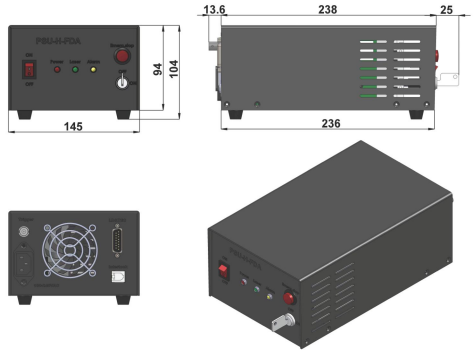
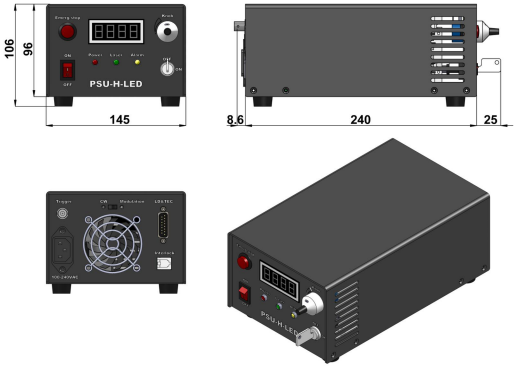
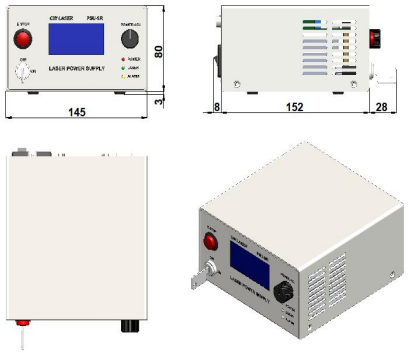
MGL-FN series (571-599nm)

LD PUMPED ALL-SOLID-STATE LASER

The all-solid-state laser features high output power stability, a good beam profile, an ultra-compact design, a long lifetime and ease of operation. It is widely used in collimation, laser medical treatment, scientific experiments, optical instruments, and more.

SPECIFICATIONS

Wavelength (nm)	577±2	588±1	589±1	594±1
Operating mode	CW			
Output power (mW)[1]	600-1200	300-800		1-100
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%	<2%, <1%, <0.5%		<3%, <2%, <1%
Transverse mode	TEM_{n1}	TEM_{00}		
M^2	<2.0	<1.5		
Beam diameter at the aperture ($1/e^2$, mm)	<2.5	<1.5		
Beam divergence (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)	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]
		
197(L)×70(W)×50(H) mm³, 1.5kg	**202(L)×110(W)×47.5(H) mm³, 1.25kg**	**276.6(L) ×145(W) ×103.6(H) mm³, 2.3kg**
POWER SUPPLY (PSU-H-LED)[4]	POWER SUPPLY (PSU-SR)[4]	
		
273.6 (L) ×145(W) ×106 (H) mm³, 2.3kg	**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.