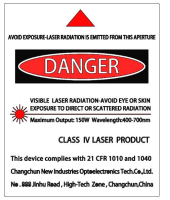
MGL-F series

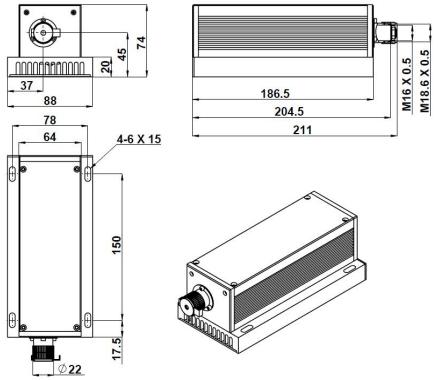
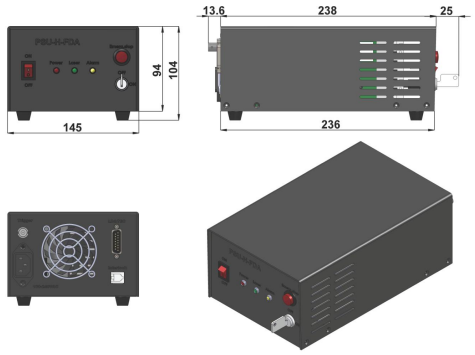
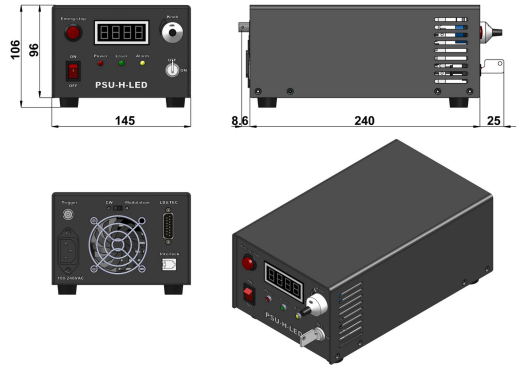
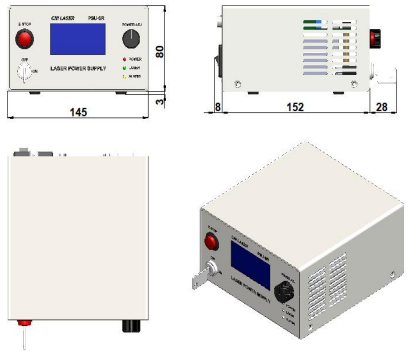
LD PUMPED ALL-SOLID-STATE LASER

The all-solid-state laser features an ultra-compact design, a long lifetime, low cost, and ease of operation. It is used in applications such as fluorescence sensors, Raman spectroscopy, laser printing, holography, laser displays, submarine communication, biomedicine, and laser lighting shows.



SPECIFICATIONS

Wavelength (nm)	515±2	577±2	588±2	589±1
Operating mode	CW			
Output power (mW)[1]	1-100	500-600	200-300	
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%		<2%, <1% , <0.5%	
Transverse mode	TEM_{00}	Multi mode	TEM_{00}	
M^2	<1.5	<3.0	<1.5	
Beam diameter at the aperture ($1/e^2$, mm)	<3.0	~2.0		
Beam divergence (mrad)	<1.5		<2.0	
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			
Beam height from base plate (mm)	45			
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	POWER SUPPLY (PSU-H-FDA)[2]
	
211 (L)×88(W) ×74(H) mm³, 1.6kg	**276.6(L) ×145(W) ×103.6(H) mm³, 2.3kg**
POWER SUPPLY (PSU-H-LED)[3]	**POWER SUPPLY (PSU-SR)[3]**
	
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 Fixed output power.

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