MGL-U series (500-570nm)

LD PUMPED ALL-SOLID-STATE LASER

All-solid-state lasers feature an ultra-compact design, long service life, and high stability as well as reliability. They are widely used in scientific experiments, medical diagnostics, instrumentation, spectral analysis, and other applications.

SPECIFICATIONS

Wavelength (nm)	532±1		543±1	556±1	561±1
Operating mode	CW				
Output power (mW)[1]	1- 500	1000-1500	1-200	1-200	80-300
Power stability (rms, 4 hours ±3°C)	<2%, <1%, (<0.5% optional)	<3%, <2%, <1%			
Transverse mode	TEM_{00}				
M^2	<1.2				
Beam diameter at the aperture ($1/e^2$, mm)	<1.0				
Beam divergence (mrad)	<1.5				
Polarization ratio	>100:1, Horizontal (Vertical optional)		>100:1, Vertical (Horizontal 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				
Laser head consumption (W)	15 (typical) , <25 (40°C)				
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				
Power supply (12VDC)	PSU-SR-OEM (12V/25A)				
Expected lifetime (hours)	>10000				

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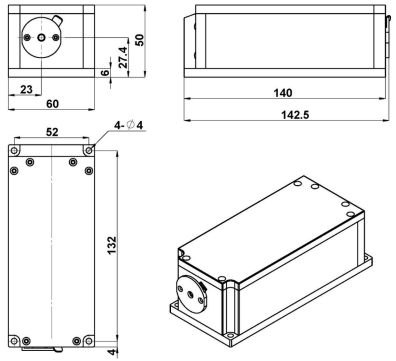
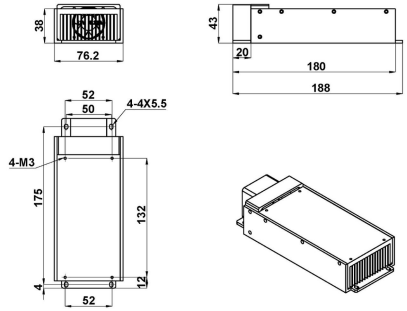
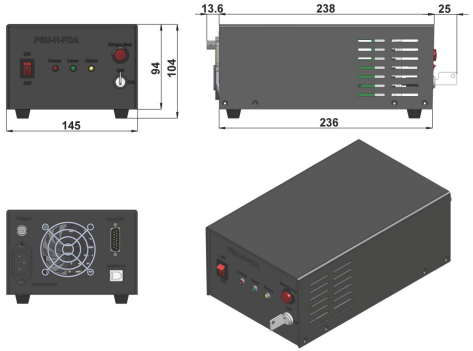
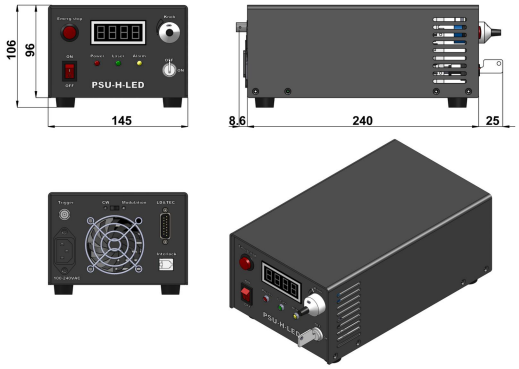
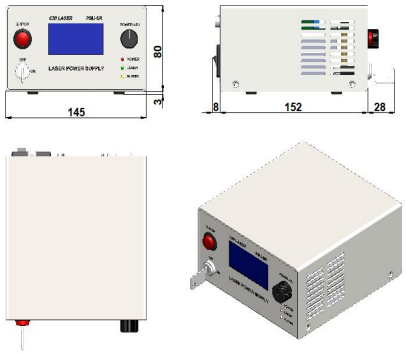
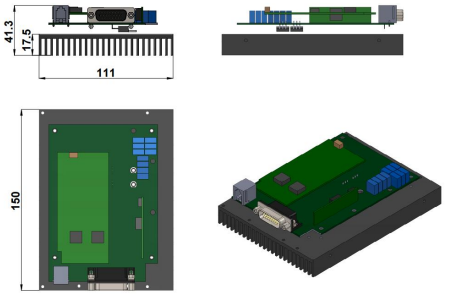
LASER HEAD[2]	HEATSINK (optional TC-04-FS)	POWER SUPPLY (PSU-H-FDA)[3]
		
142.5 (L)×60(W) ×50(H) mm³, 1.0kg	**188(L)×76.2(W)×38(H) mm³, 1.25kg**	**276.6(L) ×145(W) ×103.6(H) mm³, 2.3kg**
POWER SUPPLY (PSU-H-LED)[4]	POWER SUPPLY (PSU-SR)[4]	DRIVER (PSU-SR-OEM)[4]
		
273.6 (L) ×145(W) ×106 (H) mm³, 2.3kg	**188(L) ×145(W) ×83(H) mm³, 1.2kg**	**150(L) ×111(W) ×41.3(H) mm³, 0.8kg**

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.

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