MIL-FN series

LD PUMPED ALL-SOLID-STATE LASER

The all-solid-state laser is characterized by 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 instrumentation, and other fields.

SPECIFICATIONS

Wavelength (nm)	912±1	1357±1
Operating mode	CW	
Output power (mW)[1]	800-1000	1-400
Power stability (rms, 4 hours ±3°C)	<5%, <3%, <2%	
Transverse mode	TEM_{00}	
M^2	<1.5	
Beam diameter at the aperture ($1/e^2$, mm)	<1.5	
Beam divergence (mrad)	<1.2	
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	

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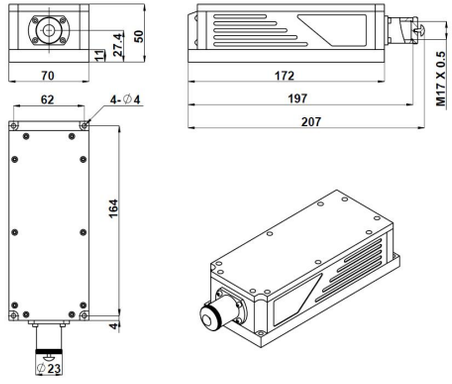
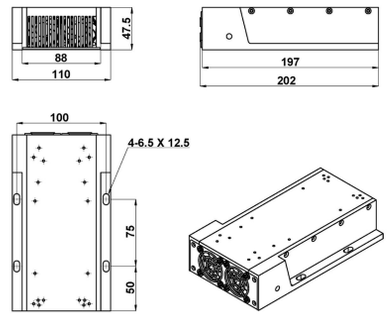
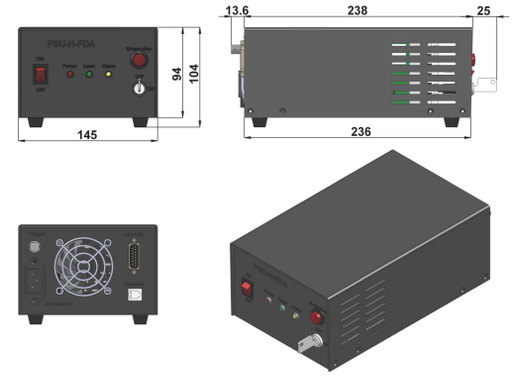
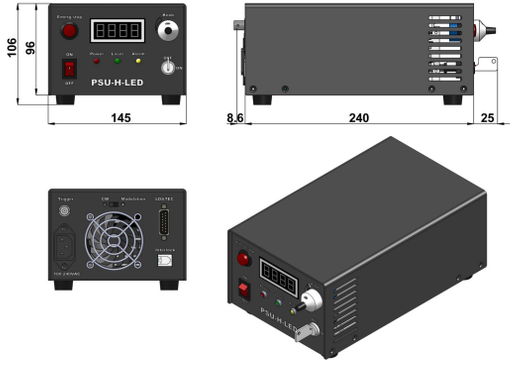
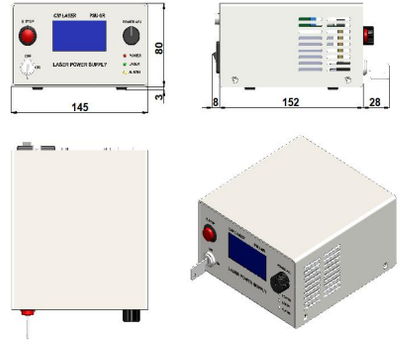
LASER HEAD[2]	HEATSINK (optional TC-02-FS)	POWER SUPPLY (PSU-H-FDA)[3]
		
197(L)×70(W)×50(H) mm³, 1.5kg	202(L)×110(W)×47.5(H) mm³, 1.25kg	276.6(L) ×145(W) ×103.6(H) mm³, 2.3kg
POWER SUPPLY (PSU-H-LED)[4]	**POWER SUPPLY (PSU-SR)[4]**	
		
273.6 (L) ×145(W) ×106 (H) mm³, 2.3kg	188(L) ×145(W) ×83(H) mm³,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