



MRL-FN series (701-800nm)



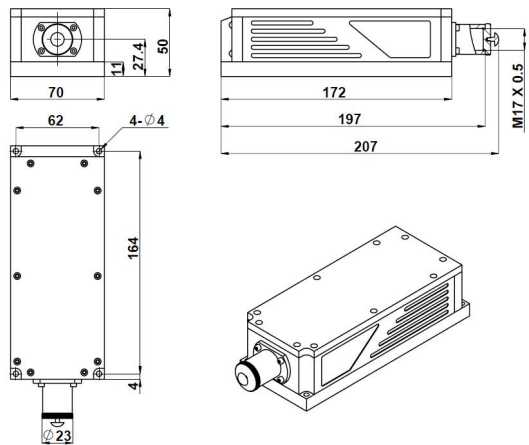
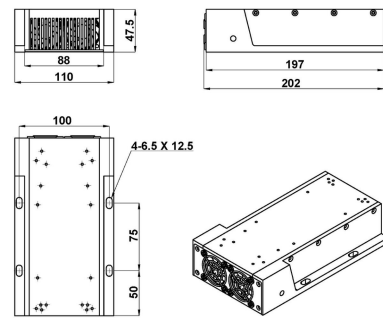
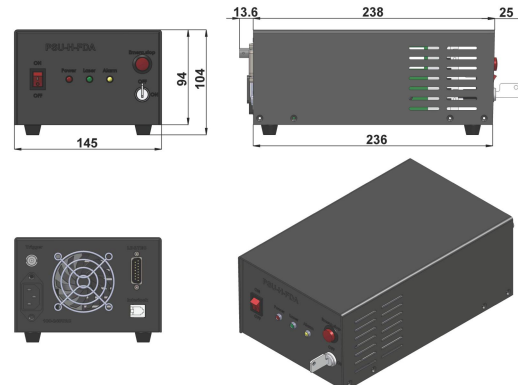
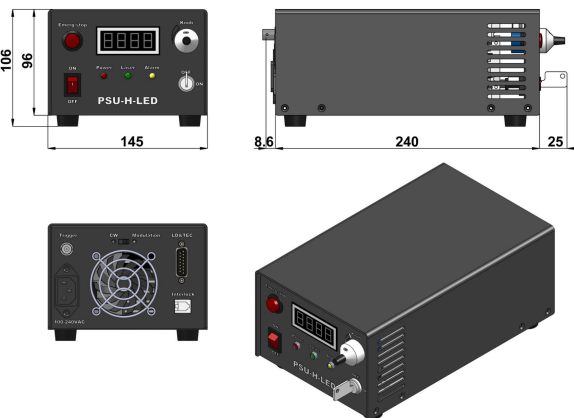
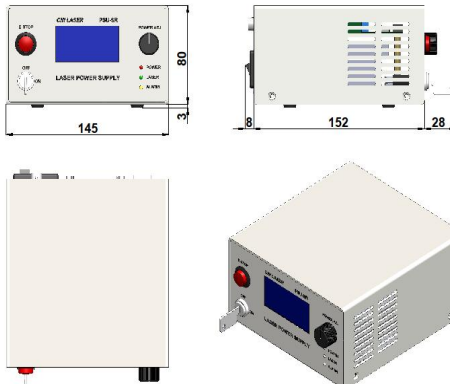
LD PUMPED ALL-SOLID-STATE LASER

All solid-state laser features high output power stability, good beam profile, ultra compact, long lifetime and easy operating, which is widely used in collimation, laser medical treatment, scientific experiment, optical instrument, etc.



SPECIFICATIONS

Part number	MRL-FN-719	MRL-FN-721	MRL-FN-729	MRL-FN-747
Wavelength (nm)	719±1	721±1	729±1	747±1
Operating mode	CW			
Output power (mW) ¹	1-300	800-1000	1-500	1-500
Power stability (rms, 4 hours±3°C)	<2%, <1%, <0.5%	<2%, <1%, <0.5%	<3%, <2%, <1%	<3%, <2%, <1%
Transverse mode	TEM ₀₀			
M ²	<1.5			
Beam diameter at the aperture (1/e ² , mm)	<1.5			
Beam divergence, full angle (mrad)	<1.5			
Polarization Ratio	>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			
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, 1.5 kg	 220(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.