



MRL-FN series (671-700nm)



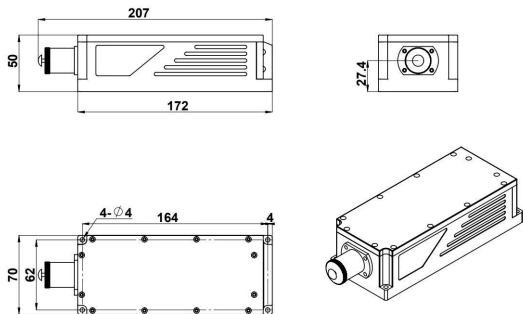
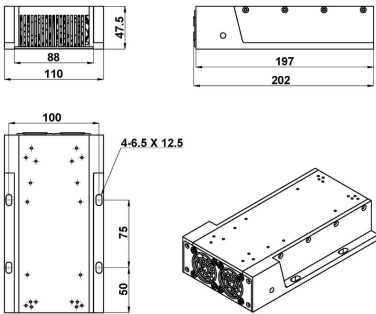
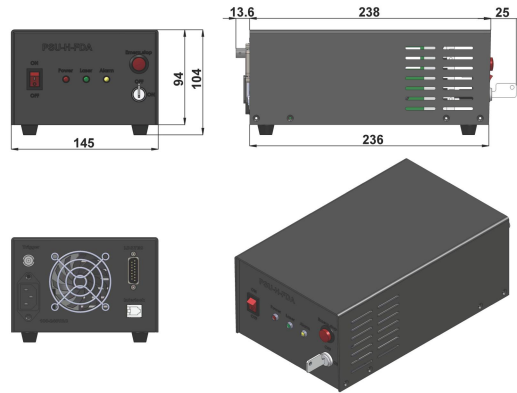
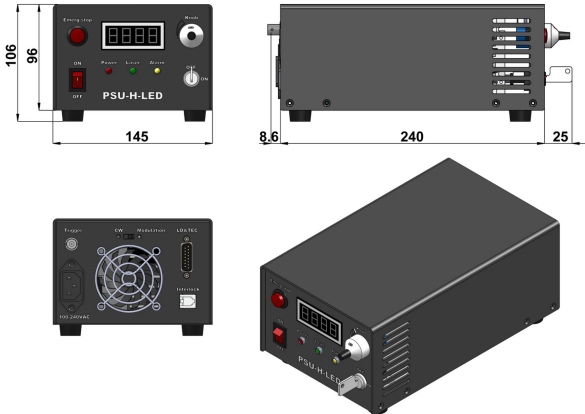
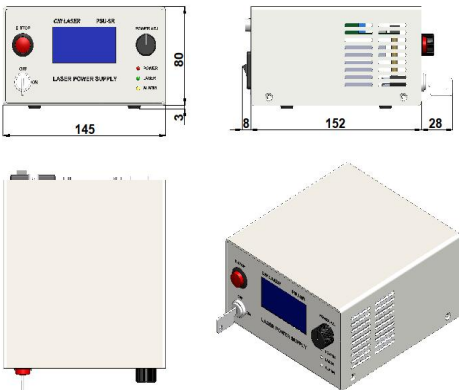
LD PUMPED ALL-SOLID-STATE LASER

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



SPECIFICATIONS

Part number	MRL-FN-671	MRL-FN-678	MRL-FN-679	MRL-FN-698
Wavelength (nm)	671±1	678±1	679±1	698±1
Operating mode	CW			
Output power (mW) ¹	500-1000	1-100	1-500	1-1000
Power stability (rms, 4 hours ±3°C)	<3%, <2%	<3%, <2%, <1%		<2%, <1%, <0.5%
Transverse mode	TEM ₀₀			
M ²	<1.2	<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
 207(L)×70(W)×50(H) mm³, 1.5 kg	 202(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.