



MRL-S series



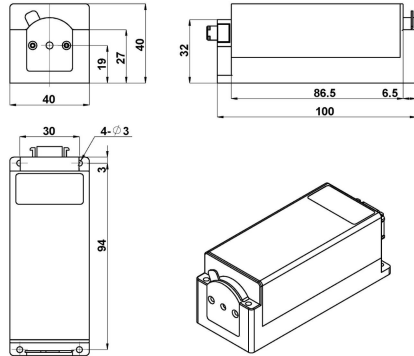
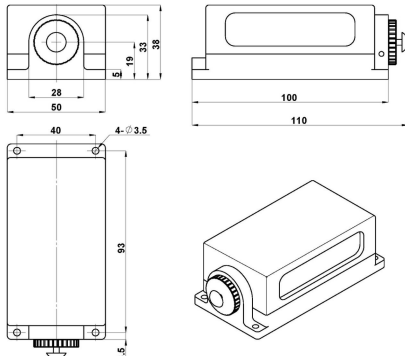
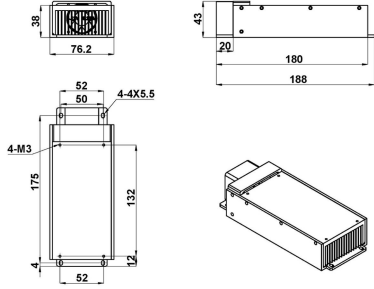
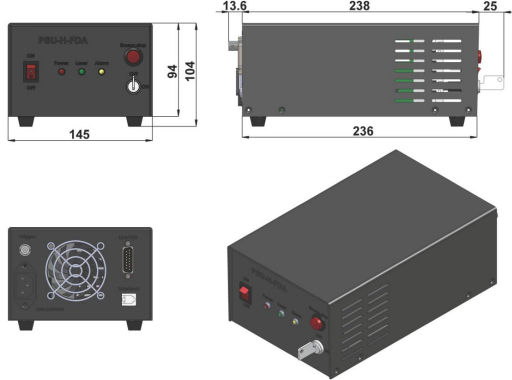
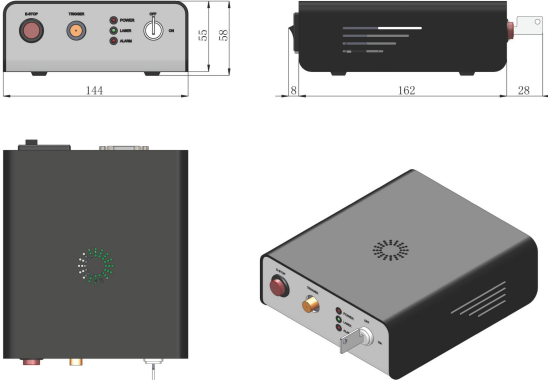
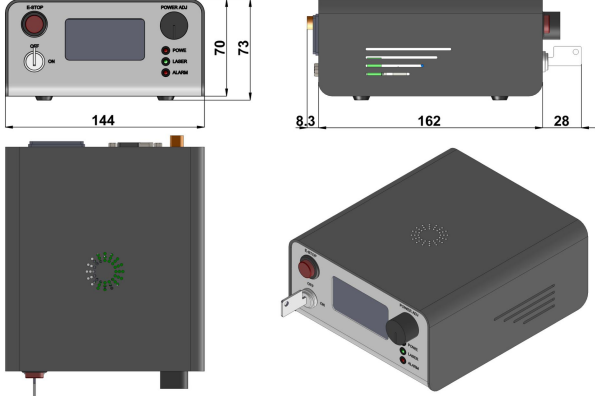
LD PUMPED ALL-SOLID-STATE LASER

All-solid-state laser features high output power stability, a good beam profile, an ultra-compact size, a wide operating temperature range, excellent sealing, a long lifetime, cost-effectiveness and easy operation, It is capable of working under a low pressure of 0.02kPa and is widely used in various applications, including collimation, laser medical treatment, scientific experiments, optical instrumentation, laser displays, laser lighting shows, etc.



SPECIFICATIONS

Model	MRL-S-671		MRL-S-671-A (Harsh condition)	
Wavelength (nm)	671±1			
Operating mode	CW			
Output power (mW) ¹	1-100	100-200	1-100	100-200
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%	<3%, <2%	<2%, <1%, <0.5%	<3%, <2%
Transverse mode	TEM ₀₀			
M ²	<1.2			
Beam diameter at the aperture(1/e ² , mm)	<1.0			
Beam divergence, full angle (mrad)	<1.5			
Polarization ratio	>100:1, Vertical (Horizontal optional)			
Pointing stability (μrad) (over 2 hours after warm-up and ±3°C)	<50			
Pointing stability over temperature (μrad/°C)	<8			
Warm-up time (minutes)	<5			
Beam height from base plate (mm)	19			
Power consumption (W)	<30			
Shock tolerance (6ms)	7g laterally, 15g vertically			
IP rating	IP65		IP67	
Power supply (100-240VAC)	PSU-A-F/PSU-A-D		PSU-H-FDA	
Operating temperature (°C)	10-35		0-60	
Modulation optional	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional			
Expected lifetime (hours)	>10000			

LASER HEAD ²	LASER HEAD (MRL-S-671-A) ²	HEATSINK (optional TC-04-FS)
 100(L)×40(W)×40(H) mm³, 0.36 kg	 110(L)×50(W)×38(H) mm³, 0.6 kg	 188(L)×76.2(W)×43(H) mm³, 0.65 kg
POWER SUPPLY (PSU-H-FDA) ³	POWER SUPPLY (PSU-A-F) ³	POWER SUPPLY (PSU-A-D) ⁴
 276.6(L)×145(W)×103.6(H) mm³, 2.3 kg	 198(L)×144(W)×58(H) mm³, 0.5kg	 198 (L) × 144(W) × 73(H) mm³, 0.6kg

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; RS232 control optional.

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