



MIL-S series



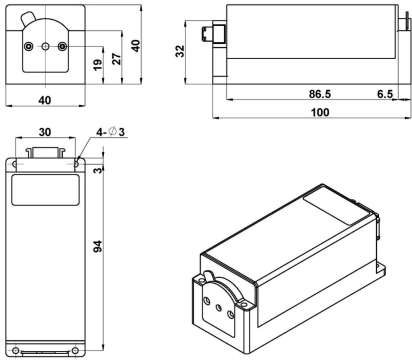
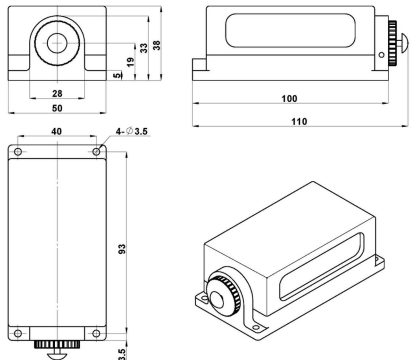
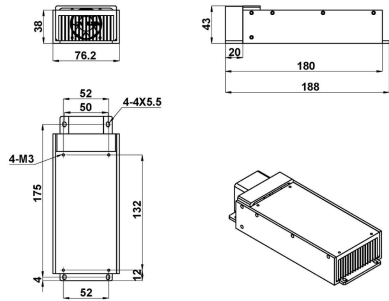
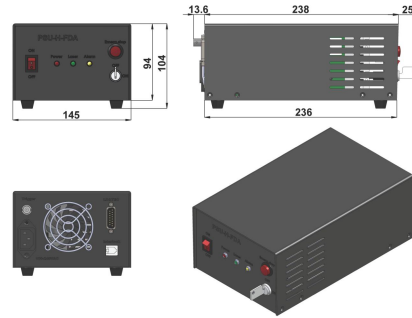
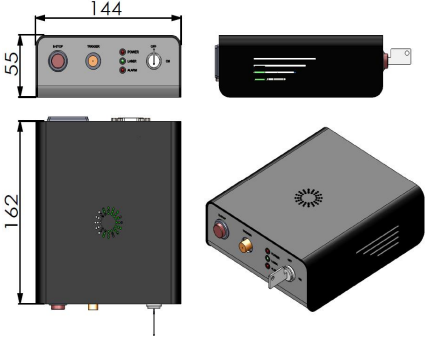
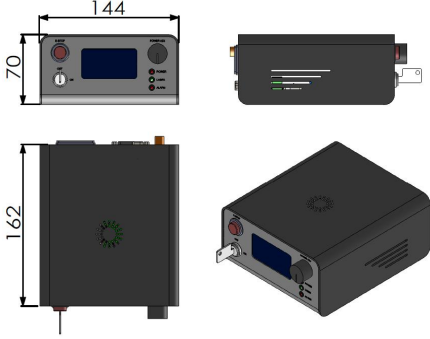
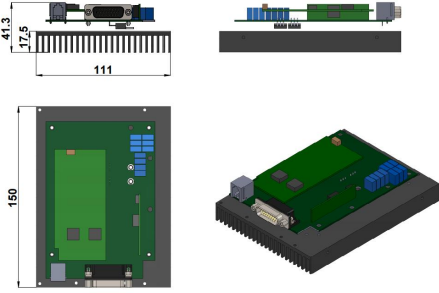
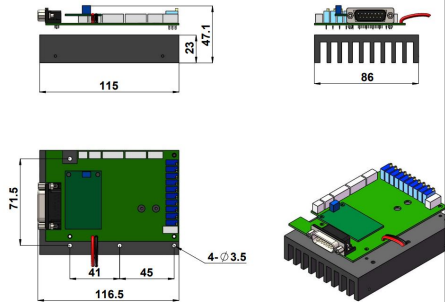
SPECIFICATIONS

LD PUMPED ALL-SOLID-STATE LASER

The all-solid-state laser is characterized by excellent output power stability and a high-quality beam profile. It also offers an ultra-compact size, a wide operating temperature range, effective sealing, long lifetime, cost-effectiveness, and simple operation, and it can function under a low pressure of 0.02 kPa. These advantages make it widely suitable for collimation, laser medical therapy, scientific experiments, optical instrumentation, laser displays, and laser light shows.



Model	MIL-S-1064		MIL-S-1064-A (Harsh condition)	
Wavelength (nm)	1064±1			
Operating mode	CW			
Output power (mW) ¹	1-400	400-1500	1-400	400-1500
Power stability (rms, 4 hours ±3°C)	<2%, <1%, <0.5%			
Transverse mode	TEM ₀₀			
M ²	<1.2, (<1.1 optional)	<1.5	<1.2, (<1.1 optional)	<1.5
Beam diameter at the aperture (1/e ² , mm)	<1.2			
Beam divergence (mrad)	<1.7			
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)	19			
Power consumption (W)	<40			
Shock tolerance (6ms)	7g laterally,15g vertically			
Max. heat dissipation of head (W)	4W@25°C		10W@50°C	
IP rating	IP65		IP67	
Operating temperature (°C)	10-35		0-60	
Modulation optional	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional			
Power supply (100-240VAC)	PSU-A-D/PSU-A-F		PSU-H-FDA	
Power supply (VDC)	PSU-A-F-OEM (5V/5A)		PSU-SR-OEM (12V/25A)	
Expected lifetime (hours)	>10000			

LASER HEAD ²	LASER HEAD (Harsh condition) ²	HEATSINK (optional TC-04-FS)	POWER SUPPLY (PSU-H-FDA) ³
 100 (L) × 40 (W) × 40 (H) mm³, 0.36kg	 110(L)×50(W)×38(H) mm³, 0.6kg	 188(L)×76.2(W)×43(H) mm³, 0.65kg	 276.6(L) × 145(W) × 103.6(H) mm³, 2.3kg
POWER SUPPLY (PSU-A-F) ³	POWER SUPPLY (PSU-A-D) ⁴	DRIVER (PSU-SR-OEM) ⁴	DRIVER (PSU-A-F-OEM) ⁴
 162(L) × 144(W) × 55(H) mm³, 0.5kg	 162 (L) × 144(W) × 70(H) mm³, 0.6kg	 150(L) × 111(W) × 41.3(H) mm³, 0.8kg	 115(L)×86(W)×47.1(H)mm³, 0.5kg

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.