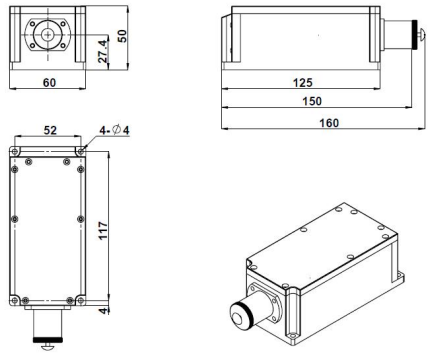
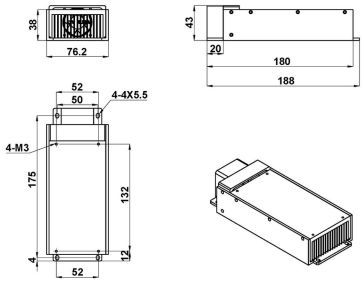
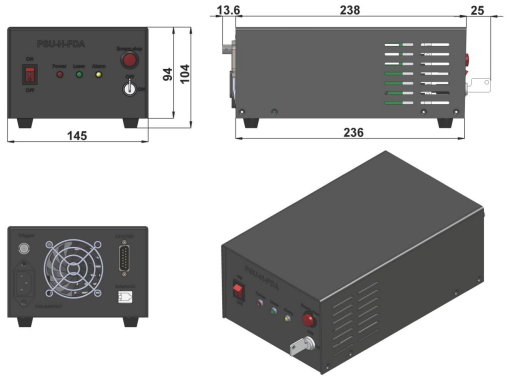
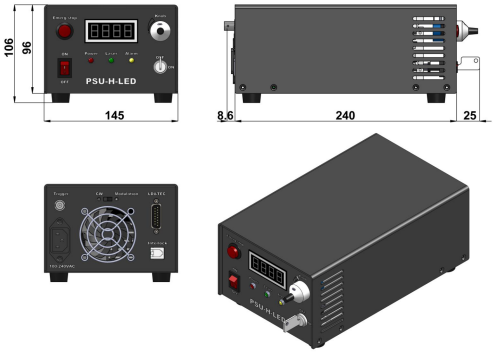
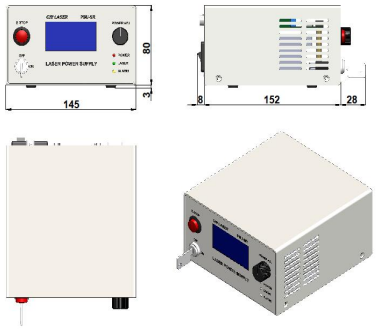
MIL-U-xxx-SU series (900-1050nm)

LD PUMPED ALL-SOLID-STATE INFRAFED LASER

The all-solid-state infrared laser is characterized by its ultra-compact design, long lifetime, and ease of operation. It is commonly used in scientific experiments, optical instrumentation, optical sensing, measurement, communication, and spectral analysis.

SPECIFICATIONS

Wavelength (nm)	914±1	946±1	1047±1
Operating mode	CW		
Output power (mW)[1]	800-1700	800-1500	1000-4000
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%
Transverse mode	TEM_{00}		
M^2	<1.5		
Beam diameter at the aperture ($1/e^2$, mm)	~1.0		
Beam divergence (mrad)	<1.5		
Polarization ratio	>100:1, Horizontal (Vertical optional)	/	>100:1, Horizontal (Vertical optional)
Warm-up time (minutes)	<5		
Pointing stability (μrad) (over 2 hours after warm-up and ±3°C)	<50		
Beam height from base plate (mm)	27.4		
Operating temperature (°C)	10-35		
Modulation optional	/		
Power supply (100-240VAC)	PSU-H-FDA/PSU-H-LED/PSU-SR		
Expected lifetime (hours)	>10000		

LASER HEAD[2]	HEATSINK (optional TC-04-FS)	POWER SUPPLY (PSU-H-FDA)[3]
 160(L)×60(W) ×50(H) mm³,0.9kg	 188(L)×76.2(W)×43(H) mm³, 0.65kg	 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.