



MIL-U-xxx-SU series



LD PUMPED ALL-SOLID-STATE INFRARED LASER

All solid state infrared laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in scientific experiment, optical instrument, optical sensor, measurement, communication, spectrum analysis, etc.



SPECIFICATIONS

Part number	MIL-U-914-SU	MIL-U-946-SU	MIL-U-1047-SU	MIL-U-1053-SU	MIL-U-1064-SU	MIL-U-1085-SU	
Wavelength (nm)	914±1	946±1	1047±1	1053±1	1064±1	1085±1	
Operating mode	CW						
Output power (mW)	800-1700	800-1500	1000-4000	1500-4000	3000-4000	1-500	500-1000
Power stability (rms, over 4 hours)	<3%, <2%	<3%, <2%	<3%, <2%	<5%, <3%	<3%, <2%	<3%, <2%, <1%	<3%, <2%
Transverse mode	TEM <sub>00</sub>						
M <sup>2</sup> factor	<1.5						
Beam diameter at the aperture (1/e <sup>2</sup> , 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 after warm-up (mrad)	<0.05						
Beam height from base plate (mm)	27.4						
Operating Temperature (°C)	10-35						
Modulation optional	/			TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional			
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/PSU-H-OEM/PSU-SR						
Expected lifetime (hours)	10000						
Warranty	1 year						

Note: The laser head needs to be used on a heat sink with good heat dissipation.

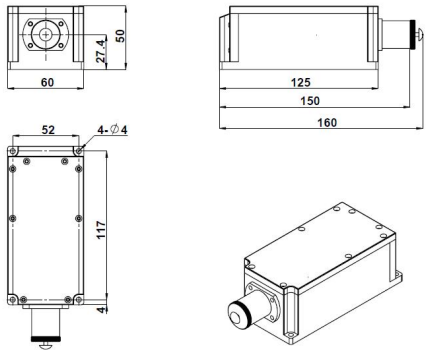
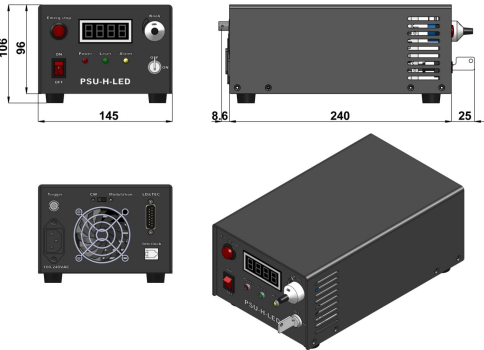
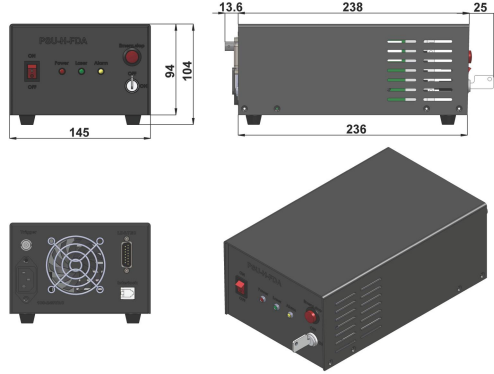
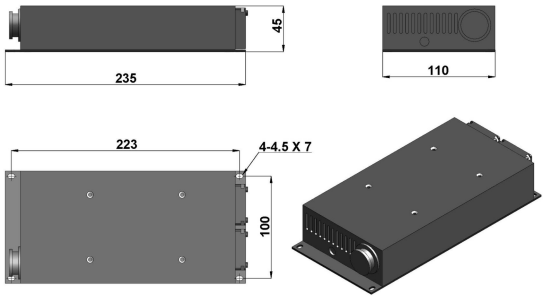
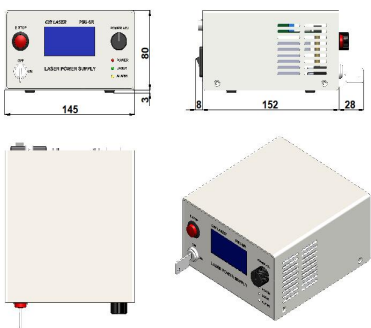


**SPECIFICATIONS**

Part number	MIL-U-1112-SU	MIL-U-1122-SU	MIL-U-1177-SU	MIL-U-1313-SU	MIL-U-1342-SU	MIL-U-1444-SU
Wavelength (nm)	1112±3	1122±1	1177±1	1313±1	1342±1	1444±2
Operating mode	CW					
Output power (mW)	500-2000	1000-1200	1-400	1000-2000	2000-3000	1-400
Power stability (rms, over 4 hours)	<3%, <2%	<3%, <2%	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%	<3%, <2%
Transverse mode	Near TEM <sub>00</sub>					
M <sup>2</sup> factor	<1.5					
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	~1.0					
Beam divergence (mrad)	<1.5					
Polarization Ratio	/		>100:1, Horizontal (Vertical Optional)			
Warm-up time (minutes)	<5					
Pointing stability after warm-up (mrad)	<0.05					
Beam height from base plate (mm)	27.4					
Operating Temperature (°C)	10-35					
Modulation optional	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional					
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/PSU-H-OEM/PSU-SR					
Expected lifetime (hours)	10000					
Warranty	1 year					

**Note: The laser head needs to be used on a heat sink with good heat dissipation.**



LASER HEAD	POWER SUPPLY (PSU-H-LED)	POWER SUPPLY (PSU-H-FDA)
 <p>160(L)×60(W)×50(H) mm<sup>3</sup>, 0.9kg</p>	 <p>273.6 (L) ×145(W) ×106 (H) mm<sup>3</sup>, 2.3 kg</p>	 <p>276.6(L) ×145(W) ×103.6(H) mm<sup>3</sup>, 2.3 kg</p>
POWER SUPPLY (PSU-H-OEM)	POWER SUPPLY (PSU-SR)	
 <p>235(L) ×110(W) ×45(H) mm<sup>3</sup>, 1.1kg</p>	 <p>188(L) ×145(W) ×83(H) mm<sup>3</sup>, 1.2kg</p>	