



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 ₀₀						
M ² factor	<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 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-1319-SU		MIL-U-1342-SU
Wavelength (nm)	1112±3	1122±1	1177±1	1313±1	1319±1		1342±1
Operating mode	CW						
Output power (mW)	500-2000	1000-1200	1-400	1000-2000	1-200	200-1200	2000-3000
Power stability (rms, over 4 hours)	<3%, <2%	<3%, <2%	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%
Transverse mode	Near TEM ₀₀						
M ² factor	<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)			
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.

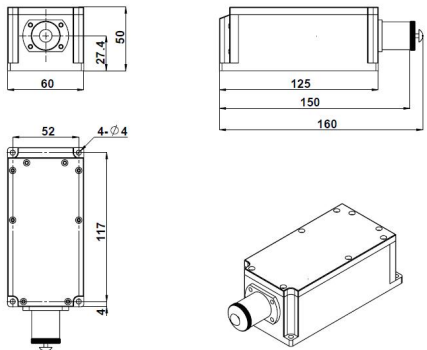
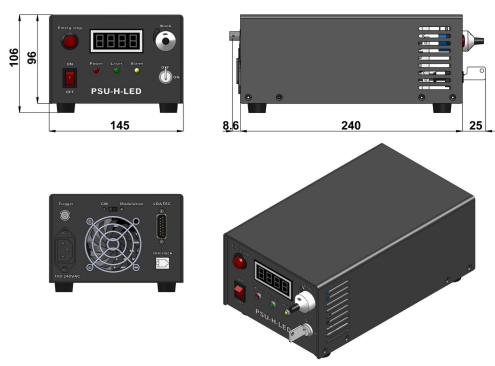
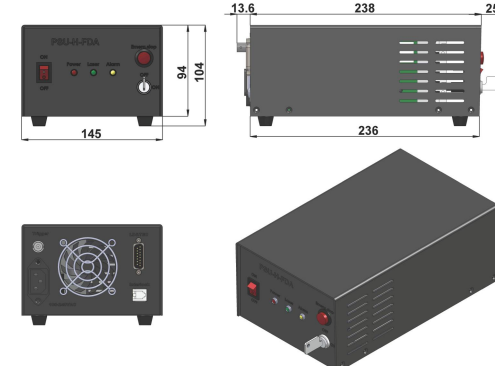
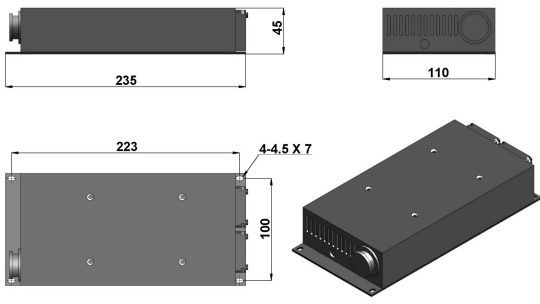
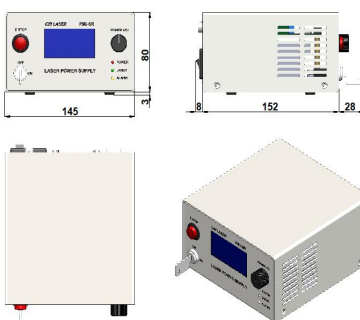


SPECIFICATIONS

Part number	MIL-U-1444-SU
Wavelength (nm)	1444±2
Operating mode	CW
Output power (mW)	1-400
Power stability (rms, over 4 hours)	<3%, <2%
Transverse mode	Near TEM ₀₀
M ² factor	<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)
Warm-up time (minutes)	<5
Pointing stability after warm-up (mrad)	<0.05
Beam height from base plate (mm)	27.4
Laser head consumption(W)	15 (typical) , <25 (40℃)
Max. Laser Head Base plate Temp (°C)	50
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) mm³, 0.9kg</p>	 <p>273.6 (L) ×145(W) ×106 (H) mm³, 2.3 kg</p>	 <p>276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg</p>
POWER SUPPLY (PSU-H-OEM)	POWER SUPPLY (PSU-SR)	
 <p>235(L) ×110(W) ×45(H) mm³, 1.1kg</p>	 <p>188(L) ×145(W) ×83(H) mm³, 1.2kg</p>	