



MLL-U-xxx-SU series



LOW NOISE INFRARED LASER

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



SPECIFICATIONS

Wavelength (nm)		914±1		946±1		1047±1		1053±1		1064±1
Operating mode		CW								
Output power (mW)		1-200	200-400	1-150	150-300	1-800	800-1000	1-500	500-1500	1500-3000
Power stability (rms, over 4 hours)		<3%, <2%, <1%,	<3%, <2%	<3%, <2%, <1%,	<3%, <2%	<3%, <2%		<3%, <2%, <1%,	<3%, <2%	<3%, <2%, <1%
Transverse mode		TEM ₀₀								
Spectral line width (nm)		<1.0, <0.1, <0.006	<1.0, <0.1	<1.0, <0.1, <0.006	<1.0, <0.1	<1.0, <0.1, <0.006	<1.0, <0.1	<1.0, <0.1, <0.006	<1.0, <0.1	
Noise of amplitude (rms, 1Hz~20MHz)		<1%								
M ² factor		<1.2		<1.5						
Beam diameter at the aperture (1/e ² , mm)		~1.5								
Beam divergence, full angle (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								
Power supply	90-264VAC	PSU-H-FDA								
	DC 12V	PSU-H-OEM								
Expected lifetime (hours)		10000								
Warranty		1 year								

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



SPECIFICATIONS

Central wavelength (nm)		1085±2		1112±3		1122±3		1313±1	
Operating mode		CW							
Output power (mW)		1-500	500-1000	1-50	50-100	1-200	200-300	1-700	700-1000
Power stability (rms, over 4 hours)		<3%, <2%, <1%,	<3%, <2%	<3%, <2%, <1%,	<3%, <2%	<3%, <2%, <1%,	<3%, <2%	<3%, <2%, <1%,	<3%, <2%
Transverse mode		TEM ₀₀							
Spectral line width (nm)		<1.0, <0.1, <0.006	<1.0, <0.1	<1.0, <0.1, <0.006	<1.0, <0.1	<1.0, <0.1, <0.006	<1.0, <0.1	<1.0, <0.2, <0.006	<1.0, <0.1
Noise of amplitude (rms, 1Hz~20MHz)		<1%							
M ² factor		<1.5						<1.2	
Beam diameter at the aperture (1/e ² , mm)		~1.5							
Beam divergence, full angle (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							
Power supply	90-264VAC	PSU-H-FDA							
	DC 12V	PSU-H-OEM							
Expected lifetime (hours)		10000							
Warranty		1 year							

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

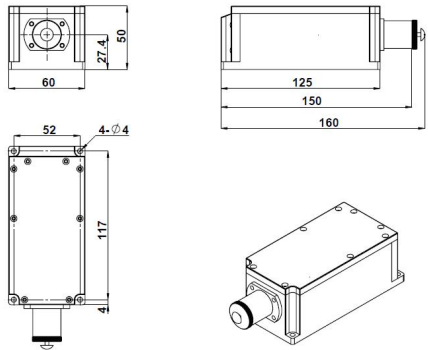
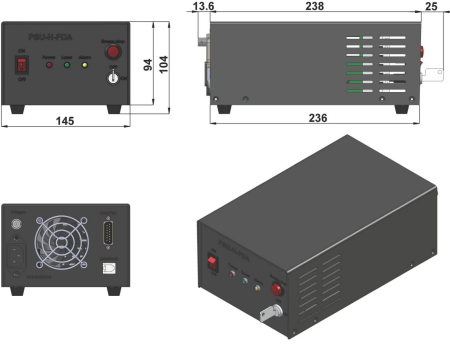
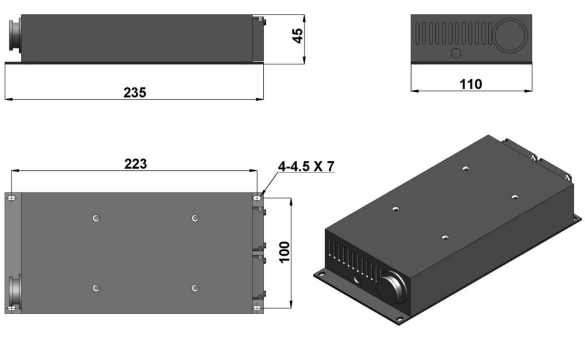


SPECIFICATIONS

Central wavelength (nm)		1319±1	1342±1		1444±2
Operating mode		CW			
Output power (mW)		1-200	1-800	800-2000	1-400
Power stability (rms, over 4 hours)		<3%, <2%, <1%,	<3%, <2%, <1%,	<3%, <2%	<3%, <2%
Transverse mode		TEM ₀₀			
Spectral line width (nm)		<0.006	<1.0, <0.2, <0.006	<1.0, <0.1	<1.0, <0.1
Noise of amplitude (rms, 1Hz~20MHz)		<1%			
M ² factor		<1.5	<1.2		<1.5
Beam diameter at the aperture (1/e ² , mm)		~1.5			
Beam divergence, full angle (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			
Power supply	90-264VAC	PSU-H-FDA			
	DC 12V	PSU-H-OEM			
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-FDA)	POWER SUPPLY (PSU-H-OEM)
 160(L)×60(W)×50(H) mm³, 0.9kg	 276.6(L)×145(W)×103.6(H) mm³, 2.3 kg	 235(L)×110(W)×45(H) mm³, 1.1kg