



MLL-U series



ULTRA- LOW NOISE DPSS LASER

Ultra low noise laser is made features of ultra compact, long lifetime, high stability and reliability, which is used in scientific experiment, medical measurement, instrument, spectrum analysis, etc.



SPECIFICATIONS

Wavelength (nm)	457±1		473±1	532±1		550±1	561±1	577±2
Operating mode	CW							
Output power (mW)	1-200	200-350	1-100	300-500	500-1500	80-100	1-200	1-200
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<3%, <2%, <1%	<3%, <2%, <1%	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%	<3%, <2%, <1%	<3%, <2%, <1%
Transverse mode	TEM ₀₀							
Spectral line width (nm)	<0.1, <0.003							
Noise of amplitude (rms, 20Hz~20MHz)	<1%		<1%, <0.5%		<1%	<1%, <0.5%	<1%	
M ² factor	<1.5			<1.2				
Beam diameter at the aperture (1/e ² , mm)	<1.0							
Beam divergence, full angle (mrad)	<1.5							
Polarization Ratio	>100:1, Vertical (Horizontal 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)	588±2	589±1	671±1	
Operating mode	CW			
Output power (mW)	1-200	1-200	1-300	300-500
Power stability (rms, over 4 hours)	<3% , <2%, <1%, <0.5%	<3% , <2%, <1%, <0.5%	<3%, <2%, <1%	<3%, <2%
Transverse mode	TEM ₀₀			
Spectral line width (nm)	<0.1, <0.003			
Noise of amplitude (rms,20Hz~20MHz)	<1%, <0.5%			
M ² factor	<1.2			
Beam diameter at the aperture (1/e ² , mm)	<1.0			
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			
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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)
<p>142.5(L)×60(W)×50(H)mm³, 1.0 kg</p>	<p>276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg</p>	<p>235(L) ×110(W) ×45(H)mm³, 1.1kg</p>