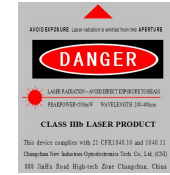


MLL-FN series



LD PUMPED ALL-SOLID-STATE LOW NOISE LASER

Low noise all solid state laser is made features of high output power stability, good beam profile, ultra compact, long lifetime, low cost and easy operating, which is widely used in collimation, laser medical treatment, scientific experiment, optical instrument, etc.



SPECIFICATIONS

Wavelength (nm)	473±1		522±1		523.5±1		526.5±1		532±1		543±1	
Operating mode	CW											
Output power (mW)	100-200		200-400		1-400		1-300		300-600		1-200	
Power stability (rms, over 4 hours)	<3%, <2%, <1%		<3%, <2%, <1%		<3%, <2%		<3%, <2%		<5%, <3%		<3%, <2%, <1%	
Spectral line width (nm)	<0.1, <0.003		<0.1		<0.1, <0.003						<0.1	<0.1, <0.003
Transverse mode	TEM ₀₀						NearTEM ₀₀					
Noise of amplitude (rms, 20Hz~20MHz)	<1%						<1%, <0.5%			<1%		
M ² factor	<1.5						<1.2, <1.1		<1.2			
Beam diameter at the aperture (1/e ² , mm)	<1.2		<2.0									
Beam divergence, full angle (mrad)	<1.0		<1.5									
Polarization Ratio	>100:1, Vertical (Horizontal Optional)								>100:1, Horizontal (Vertical Optional)	>100:1, Vertical (Horizontal Optional)		
Warm-up time (minutes)	<5											
Pointing stability after warm-up (mrad)	<0.05											
Beam height from base plate (mm)	27.4											
Max. Laser Head Base plate Temp (°C)	50											
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

Wavelength (nm)	543.5±1	550±1	556±1	561±1	588±2	589±1	594±1
Operating mode	CW						
Output power (mW)	1-100	1-80	1-200	200-400	200-300	200-300	1-50
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%	<3%, <2%, <1%	<3%, <2%, <1%, <0.5%		<3%, <2%
Spectral line width (nm)	<0.1, <0.003						<0.1
Transverse mode	NearTEM ₀₀			TEM ₀₀			
Noise of amplitude (rms, 20Hz~20MHz)	<1%				<1%, <0.5%		<1%
M ² factor	<1.2	<1.5	<1.2				<1.5
Beam diameter at the aperture (1/e ² , mm)	<2.0			<1.5			
Beam divergence, full angle (mrad)	<1.5						<2.0
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						
Max. Laser Head Base plate Temp (°C)	50						
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

Wavelength (nm)	607±1		639±1		660±1	670±0.5		671±1		698±1		721±1			
Operating mode	CW														
Output power (mW)	1-200	200-600	1-400	400-1500	1-200	1-200	200-500	500-600	600-1000	1-300	300-1200	1-100	100-800		
Power stability (rms, over 4 hours)	<3%, <2%, <1%, <0.5%		<3%, <2%, <1%, <0.5%		<3%, <2%, <1%		<3%, <2%, <1%		<3%, <2%, <1%		<3%, <2%		<3%, <2%, <1%, <0.5%		
Spectral line width (nm)	<0.1, <0.003	<0.1	<0.1, <0.003	<0.1	<0.1, <0.003		<0.1	<0.1, <0.003	<0.1	<0.1, <0.003	<0.1	<0.1, <0.003	<0.1		
Transverse mode	TEM ₀₀						Near TEM ₀₀			TEM ₀₀	Near TEM ₀₀	TEM ₀₀			
Noise of amplitude (rms, 20Hz~20MHz)	<1%		<1%, <0.5%		<1%		<1%, <0.5%			<1%			<1%, <0.5%		
M ² factor	<1.5		<1.2, <1.1		<1.2			<2.0		<1.2, <1.1		<1.2		<1.5	
Beam diameter at the aperture (1/e ² , mm)	<1.5		<1.0		<2.0			~2.0		<2.0					
Beam divergence, full angle (mrad)	<2.0		<1.5		<1.2			<1.5				<1.2			
Polarization Ratio	>100:1, Vertical (Horizontal Optional)		>100:1, Horizontal (Vertical Optional)						>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														
Max. Laser Head Base plate Temp (°C)	50														
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)
<p>197(L)×70(W)×50(H) mm³, 1.5 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>