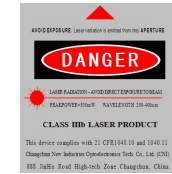


MxL-FN series



LD PUMPED ALL-SOLID-STATE LASER

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

Part number	MBL-FN-473		MGL-FN-522	MGL-FN-523.5	
Wavelength (nm)	473±1		522±1	523.5±1	
Operating mode	CW				
Output power (mW)	300-500	500-1000	1-400	1-400	400-800
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<5%, <3%, <2%	<5%, <3%, <2%	<3%, <2%, <1%	<5%, <3%
Transverse mode	TEM ₀₀	Near TEM ₀₀	Near TEM ₀₀		
M ² factor	<1.2	/	<1.5		
Beam diameter at the aperture (1/e ² , mm)	~2.0	~3.0	~2.0		
Beam divergence, full angle (mrad)	<1.5				
Polarization Ratio	>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				
Operating Temperature (°C)	10-35				
Modulation option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional				
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/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	MGL-FN-526.5		MGL-FN-532		MGL-FN-536		MGL-FN-537
Wavelength (nm)	526.5±1		532±1		536±1		537±1
Operating mode	CW						
Output power (mW)	1-200	200-400	300-1000	1000-4000	1-200	200-500	1-30
Power stability (rms, over 4 hours)	<5%, <3%, <2%	<5%, <3%	<3%, <2%, <1%	<3%, <2%	<5%, <3%, <2%	<5%, <3%	<5%, <3%, <2%
Transverse mode	Near TEM ₀₀		TEM ₀₀			Near TEM ₀₀	
M ² factor	<1.5		<1.2, <1.1	<1.5	<1.5		
Beam diameter at the aperture (1/e ² , mm)	~2.0				<2.0		
Beam divergence, full angle (mrad)	<1.5						
Polarization Ratio	>100:1, Vertical (Horizontal Optional)		>100:1, Horizontal (Vertical Optional)			>50:1, 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 option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional						
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/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	MGL-FN-543		MGL-FN-543.5	MGL-FN-545	MGL-FN-550
Wavelength (nm)	543±1		543.5±1	545±1	550±1
Operating mode	CW				
Output power (mW)	1-500	500-1000	1-100	1-20	1-200
Power stability (rms, over 4 hours)	<3%, <2%, <1%		<3%, <2%, <1%	<10%, <5%	<5%, <3%
Transverse mode	TEM ₀₀	Near TEM ₀₀	TEM ₀₀	Near TEM ₀₀	
M ² factor	<1.2			<1.5	<1.5
Beam diameter at the aperture (1/e ² , mm)	<2.0				
Beam divergence, full angle (mrad)	<1.5				
Polarization Ratio	>100:1, Vertical (Horizontal Optional)			>50:1, Vertical (Horizontal 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				
Operating Temperature (°C)	10-35				
Modulation option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional				
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/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	MGL-FN-552	MGL-FN-555	MGL-FN-556		MGL-FN-561	
Wavelength (nm)	552±1	555±1	556±1		561±1	
Operating mode	CW					
Output power (mW)	1-300	1-100	1-500	500-800	1-500	500-1000
Power stability (rms, over 4 hours)	<10%, <5%, <3%	<5%, <3%	<3%, <2%, <1%	<5%, <3%, <2%	<3%, <2%, <1%	<10%, <5%, <3%
Transverse mode	Near TEM ₀₀		TEM ₀₀	Near TEM ₀₀	TEM ₀₀	Near TEM ₀₀
M ² factor	/	<2.0	<1.2			<1.5
Beam diameter at the aperture (1/e ² , mm)	<2.0	~2.0	<2.0			
Beam divergence, full angle (mrad)	<2.0		<1.5			
Polarization Ratio	>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					
Operating Temperature (°C)	10-35					
Modulation option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional					
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/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	MGL-FN-565	MGL-FN-570	MGL-FN-577	MGL-FN-588	MGL-FN-589
Wavelength (nm)	565±1	570±1	577±2	588±1	589±1
Operating mode	CW				
Output power (mW)	1-100	1-100	600-1200	200-300	300-800
Power stability (rms, over 4 hours)	<5%, <3%	<5%, <3%	<3%, <2%, <1%	<3%, <2%, <1%, 0.5%	<3%, <2%, <1%, 0.5%
Transverse mode	Near TEM ₀₀		Multi mode	TEM ₀₀	Near TEM ₀₀
M ² factor	<1.5		<2.0	<1.2	<1.5
Beam diameter at the aperture (1/e ² , mm)	<1.5		<2.5	<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				
Modulation option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional				
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/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	MGL-FN-594	MRL-FN-604	MRL-FN-607		MRL-FN-613
Wavelength (nm)	594±1	604±1	607±3		613±1
Operating mode	CW				
Output power (mW)	1-100	1-100	1-200	200-600	1-20
Power stability (rms, over 4 hours)	<5%, <3%, <2%	<3%, <2%, <1%	<3%, <2%, <1%, 0.5%		<5%, <3%, <2%
Transverse mode	TEM ₀₀	Near TEM ₀₀	TEM ₀₀		Near TEM ₀₀
M ² factor	<1.5	<2.0	<1.2		<1.2
Beam diameter at the aperture (1/e ² , mm)	<1.5		<1.0	<2.0	<1.0
Beam divergence, full angle (mrad)	<2.0	<1.5			
Polarization Ratio	>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				
Operating Temperature (°C)	10-35				
Modulation option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional				
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/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	MRL-FN-639		MRL-FN-656.5	MRL-FN-660	MRL-FN-666
Wavelength (nm)	639±1		656.5±1	660±1	666±1
Operating mode	CW				
Output power (mW)	1-400	400-1500	1-400	1-400	1-200
Power stability (rms, over 4 hours)	<3%, <2%, <1%, 0.5%		<2%, <1%, 0.5%	<10%, <5%, <3%, <2%	<10%, <5%, <3%
Transverse mode	TEM ₀₀			Near TEM ₀₀	
M ² factor	<1.2, <1.1	<1.5	<1.2		<2.0
Beam diameter at the aperture (1/e ² , mm)	<1.0	<1.5	<2.0		
Beam divergence, full angle (mrad)	<1.5		<1.5		<2.0
Polarization Ratio	>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				
Operating Temperature (°C)	10-35				
Modulation option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional				
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/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	MRL-FN-669	MRL-FN-670		MRL-FN-671		MRL-FN-678
Wavelength (nm)	669±1	670±0.5		671±1		678±1
Operating mode	CW					
Output power (mW)	1-200	1-200	200-500	1-400	400-1000	1-100
Power stability (rms, over 4 hours)	<10%, <5%, <3%, <2%	<1%, 0.5%		<3%, <2%, <1%	<3%, <2%	<5%, <3%, <2%
Transverse mode	Near TEM ₀₀	TEM ₀₀	Near TEM ₀₀	TEM ₀₀		
M ² factor	<2.0	<1.2	<2.0	<1.2, <1.1	<1.2	<1.5
Beam diameter at the aperture (1/e ² , mm)	<2.0			~2.0		<1.0
Beam divergence, full angle (mrad)	<2.0	<1.2		<1.5		
Polarization Ratio	>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					
Operating Temperature (°C)	10-35					
Modulation option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional					
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/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	MRL-FN-679	MRL-FN-698	MRL-FN-721	MIL-FN-912		
Wavelength (nm)	679±1	698±1	721±1	912±1		
Operating mode	CW					
Output power (mW)	1-30	1-500	500-1200	1-400	400-1200	1-1000
Power stability (rms, over 4 hours)	<5%, <3%, <2%	<2%, <1%	<5%, <3%	<3%, <2%, <1%, 0.5%		<5%, <3%, <2%
Transverse mode	TEM ₀₀		Near TEM ₀₀	TEM ₀₀	Near TEM ₀₀	
M ² factor	<1.5				<2.0	
Beam diameter at the aperture (1/e ² , mm)	<1.0	~2.0		<1.2		<1.5
Beam divergence, full angle (mrad)	<1.5				<1.2	
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					
Modulation option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional					
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/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.

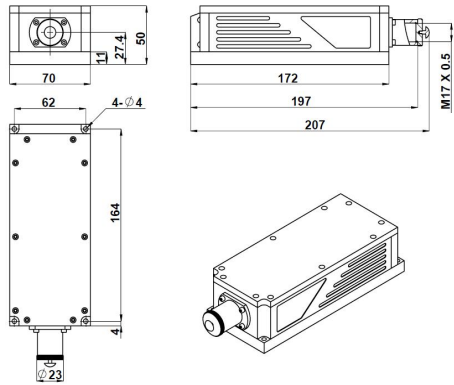


SPECIFICATIONS

Part number	MIL-FN-1357
Wavelength (nm)	1357±1
Operating mode	CW
Output power (mW)	1-400
Power stability (rms, over 4 hours)	<5%, <3%, <2%
Transverse mode	Near TEM ₀₀
M ² factor	<2.0
Beam diameter at the aperture (1/e ² , mm)	<1.5
Beam divergence, full angle (mrad)	<1.2
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 option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/PSU-SR
Expected lifetime (hours)	10000
Warranty	1 year

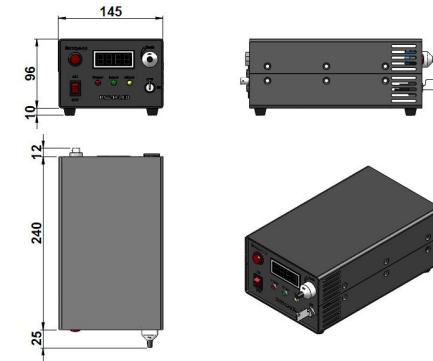
Note: The laser head needs to be used on a heat sink with good heat dissipation.

LASER HEAD



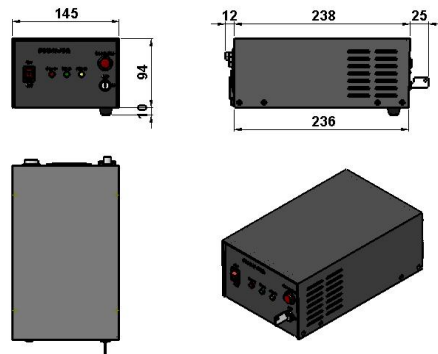
197(L)×70(W)×50(H) mm³, 1.5 kg

POWER SUPPLY (PSU-H-LED)



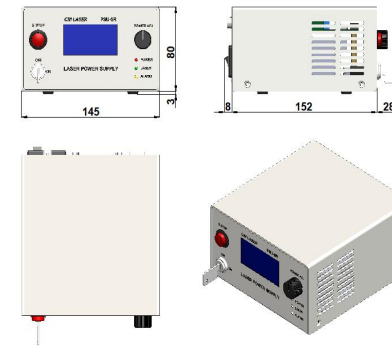
277 (L) ×145(W) ×106 (H) mm³, 2.6 kg

POWER SUPPLY (PSU-H-FDA)



275(L) ×145(W) ×104(H) mm³, 2.3 kg

POWER SUPPLY (PSU-SR)



188(L) ×145(W) ×83(H) mm³, 1.2kg