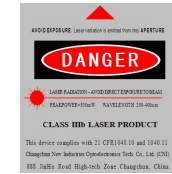


**MxL-S series**



**LD PUMPED ALL-SOLID-STATE LASER**

All solid state laser is made features of high output power stability, good beam profile, ultra compact, small size, wide operating temperature, good sealing, long lifetime, cost -effectiveness and easy operating, working under the pressure of 0.02kPa, which is widely used in collimation, laser medical treatment, scientific experiment, optical instrument, laser display, laser lighting show, etc.



**SPECIFICATIONS**

Model	MBL-S-473-A (Harsh condition)	MBL-S-473-B (Normal condition)	MGL-S-532-A (Harsh condition)	MGL-S-532-B (Normal condition)
Wavelength (nm)	473±1		532±1	
Operating mode	CW			
Output power (mW)	1-50		1-300	
Power stability (rms, over 4 hours)	<5%, <3%, <2%		<3%, <2%, <1%	
Transverse mode	TEM <sub>00</sub>			
M <sup>2</sup> factor	<1.2		<1.2, <1.1	
Beam diameter at the aperture( 1/e <sup>2</sup> , mm)	<1.0			
Beam divergence, full angle (mrad)	<1.5			
Polarization ratio	>100:1 (Horizontal or Vertical Optional)			
Pointing stability after warm-up (mrad)	<0.05			
Pointing stability Over Temp. (μrad/°C)	<8			
Warm-up time (minutes)	<5			
Beam height from base plate (mm)	19			
Power Consumption(W)	<30			
Shock Tolerance(6ms)	7g laterally, 15g vertically			
IP Rating	IP67	IP65	IP67	IP65
Power supply(90-264VAC)	PSU-H-FDA	PSU-A-D/ PSU-A-F	PSU-H-FDA	PSU-A-D/ PSU-A-F
Operating temperature (°C)	0-60	10-35	0-60	10-35
Max. Heat Dissipation of Head(W)	10W@50°C	4W@25°C	10W@50°C	4W@25°C
Modulation	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation optional			
Expected lifetime (hours)	10000			
Warranty	1 year			

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



**SPECIFICATIONS**

Model	MGL-S-561 (Normal condition)	MGL-S-577-A (Harsh condition)	MGL-S-577-B (Normal condition)	MGL-S-588-A (Harsh condition)	MGL-S-588-B (Normal condition)
Wavelength (nm)	561±1	577±2		588±2	
Operating mode	CW				
Output power (mW)	1-50	1-30		1-50	
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<5%, <3%, <2%, <1%		<5%, <3%, <1%	
Transverse mode	TEM <sub>00</sub>				
M <sup>2</sup> factor	<1.2				
Beam diameter at the aperture( 1/e <sup>2</sup> , mm)	<1.0				
Beam divergence, full angle (mrad)	<1.5				
Polarization ratio	>100:1 (Horizontal or Vertical Optional)				
Pointing stability after warm-up (mrad)	<0.05				
Pointing stability Over Temp. (μrad/°C)	<8				
Warm-up time (minutes)	<5				
Beam height from base plate (mm)	19				
Power Consumption(W)	<30				
Shock Tolerance(6ms)	7g laterally, 15g vertically				
IP Rating	IP65	IP67	IP65	IP67	IP65
Power supply(90-264VAC)	PSU-A-D/ PSU-A-F	PSU-H-FDA	PSU-A-D/ PSU-A-F	PSU-H-FDA	PSU-A-D/ PSU-A-F
Operating temperature (°C)	10-35	0-60	10-35	0-60	10-35
Max. Heat Dissipation of Head(W)	/	10W@50°C	4W@25°C	10W@50°C	4W@25°C
Modulation	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation optional				
Expected lifetime (hours)	10000				
Warranty	1 year				

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



**SPECIFICATIONS**

Model	MGL-S-589-A (Harsh condition)	MGL-S-589-B (Normal condition)	MRL-S-671-A (Harsh condition)		MRL-S-671-B (Normal condition)	
Wavelength (nm)	589±1		671±1			
Operating mode	CW		CW			
Output power (mW)	1-50		1-100	100-200	1-100	100-200
Power stability (rms, over 4 hours)	<3%, <2%, <1%		<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%	<3%, <2%
Transverse mode	TEM <sub>00</sub>					
M <sup>2</sup> factor	<1.2					
Beam diameter at the aperture( 1/e <sup>2</sup> , mm)	<1.0					
Beam divergence, full angle (mrad)	<1.5					
Polarization ratio	>100:1 (Horizontal or Vertical Optional)					
Pointing stability after warm-up (mrad)	<0.05					
Pointing stability Over Temp. (μrad/°C)	<8					
Warm-up time (minutes)	<5					
Beam height from base plate (mm)	19					
Power Consumption(W)	<30					
Shock Tolerance(6ms)	7g laterally, 15g vertically					
IP Rating	IP67	IP65	IP67		IP65	
Power supply(90-264VAC)	PSU-H-FDA	PSU-A-D/ PSU-A-F		PSU-H-FDA		PSU-A-D/ PSU-A-F
Operating temperature (°C)	0-60	10-35		0-60		10-35
Max. Heat Dissipation of Head(W)	10W@50°C	4W@25°C		10W@50°C		4W@25°C
Modulation	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation optional					
Expected lifetime (hours)	10000					
Warranty	1 year					

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



**SPECIFICATIONS**

Model	MIL-S-1064-A (Harsh condition)		MIL-S-1064-B (Normal condition)	
Wavelength (nm)	1064±1			
Operating mode	CW			
Output power (mW)	1-400	400-1500	1-400	400-1500
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%	<3%, <2%
Transverse mode	TEM <sub>00</sub>			
M <sup>2</sup> factor	<1.2	<1.5	<1.2	<1.5
Beam diameter at the aperture( 1/e <sup>2</sup> , mm)	<1.2			
Beam divergence, full angle (mrad)	<1.7			
Polarization ratio	>100:1 (Horizontal or Vertical Optional)			
Pointing stability after warm-up (mrad)	<0.05			
Pointing stability Over Temp. (μrad/°C)	<8			
Warm-up time (minutes)	<5			
Beam height from base plate (mm)	19			
Power Consumption(W)	<40			
Shock Tolerance(6ms)	7g laterally, 15g vertically			
IP Rating	IP67		IP65	
Power supply(90-264VAC)	PSU-H-FDA		PSU-A-D/ PSU-A-F	
Operating temperature (°C)	0-60		10-35	
Max. Heat Dissipation of Head(W)	10W@50°C		4W@25°C	
Modulation	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation option			
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 (Harsh condition)	LASER HEAD (Normal condition)	POWER SUPPLY (PSU-H-FDA)
<p style="text-align: center;"><b>110(L)×50(W)×38(H) mm<sup>3</sup>, 0.6 kg</b></p>	<p style="text-align: center;"><b>100 (L) ×40 (W) ×40(H) mm<sup>3</sup>, 0.36kg</b></p>	<p style="text-align: center;"><b>275(L)×145(W)×104(H) mm<sup>3</sup>, 2.3 kg</b></p>
POWER SUPPLY (PSU-A-D)	POWER SUPPLY (PSU-A-F)	
<p style="text-align: center;"><b>162 (L) × 144(W) ×70(H) mm<sup>3</sup>, 0.6kg</b></p>	<p style="text-align: center;"><b>162(L) × 144(W) ×55(H) mm<sup>3</sup>, 0.5kg</b></p>	