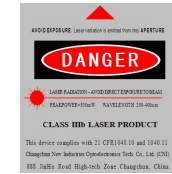


**MBL-S series**



**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)
Wavelength (nm)	473±1	
Operating mode	CW	
Output power (mW)	1-50	
Power stability (rms, over 4 hours)	<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, Vertical (Horizontal 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
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 optional	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.**

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>276.6(L)×145(W)×103.6(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>	