

MBL-F-457/1~1000mW



LD PUMPED ALL-SOLID-STATE  
BLUE LASER

All solid state 457nm blue laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in fluorescence sensors, Raman spectrum, laser printing, holography, laser display, submarine communication, biomedicine, laser lighting show, etc.



SPECIFICATIONS

Wavelength (nm)	457 ± 1	
Operating mode	CW	
Output power (mW)	>1, 10, 20, 30, ..., 400	>400, 550, 600, ..., 1000
Power stability (rms, over 4 hours)	<3%, <5%, <10%	
Transverse mode	Near TEM <sub>00</sub>	Near TEM <sub>01</sub> , (Near TEM <sub>00</sub> on request)
M <sup>2</sup> factor	<2.0	
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	~3.0	
Beam divergence, full angle (mrad)	<1.5	
Polarization ratio	>100:1	
Warm-up time (minutes)	<10	
Pointing stability after warm-up (mrad)	<0.05	
Beam height from base plate (mm)	45	
Operating temperature (°C)	10~35	
Power supply (90-264VAC)	PSU-H-LED PSU-H-FDA PSU-H-OEM	
Modulation option	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation option	
Expected lifetime (hours)	10000	
Warranty period	1 year	



MXL-F-457	PSU-H-LED	PSU-H-FDA	PSU-H-OEM
<p>211(L) × 88(W) × 74(H) mm<sup>3</sup>, 1.6 kg</p>	<p>277 (L) × 145(W) × 106 (H) mm<sup>3</sup>, 2.6 kg</p>	<p>236(L) × 145(W) × 104(H) mm<sup>3</sup>, 2.3 kg</p>	<p>238 (L) × 146(W) × 94 (H) mm<sup>3</sup>, 2.2 kg</p>