

Opto Engine LLC

Data sheet

Rev. 0912

MBL-N-457/1000~2000mW

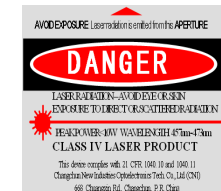
LD PUMPED ALL-SOLID-STATE BLUE LASER AT 457NM





All solid state 457 nm blue laser is made features of ultra compact, long lifetime, low cost and easy operating, which is widely used in collimation, laser medical treatment, scientific experiment, optical instrument, laser display, laser lighting show, etc.



SPECIFICATIONS

Wavelength (nm)	457 ± 1		
Output power (mW)	>1000, 1500, ..., 2000		
Transverse mode	Near TEM ₀₁		
Operating mode	CW		
Power stability (rms, over 4 hours)	<3%, <5%, <10%		
Warm-up time (minutes)	<10		
M ² factor	<3.0		
Beam divergence, full angle (mrad)	<1.5		
Beam diameter at the aperture (mm)	~3.0		
Beam height from base plate (mm)	68.2		
Polarization ratio	>100:1		
Pointing stability after warm-up (mrad)	<0.05		
Operating temperature (°C)	10~35		
Power supply (90-264VAC)	PSU-H-LED	PSU-H-FDA	PSU-N-OEM
TTL modulation/ Analog modulation	Optional, 2kHz or higher (others on request, up to 30kHz)		
Expected lifetime (hours)	10000		
Warranty period	1 year		



MBL-N-457	PSU-H-LED	PSU-H-FDA	PSU-N-OEM
 <p>235(L)×99(W)×94(H) mm³, 2.6 kg</p>	 <p>240 (L) ×146(W) ×108 (H) mm³, 2.6 kg</p>	 <p>238 (L) ×146(W) ×102 (H) mm³, 2.3 kg</p>	 <p>215 (L) ×108(W) ×122 (H) mm³, 2.145 kg</p>
