

## 457 nm LD Pumped All-Solid-State Blue Laser

**Model #:** MBL-N-457

**Description:** 457 nm LD Pumped All-Solid-State Blue Laser. The all solid state single blue laser at 457 nm features ultra compact, long lifetime and easy operating.



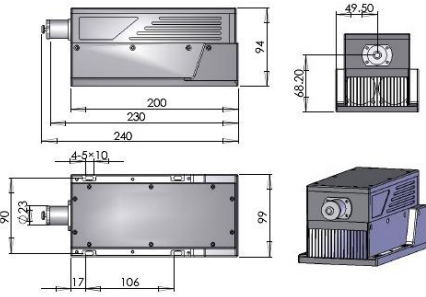
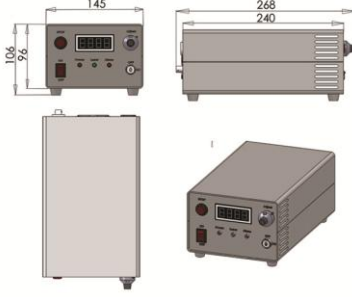


**Application:** Collimation, laser medical treatment, scientific experiment, optical instrument, laser display, laser lighting show, etc.

### Specifications

Model	MBL-N-457A	MBL-N-457
Wavelength (nm)	457±1	
Output Power (mW)	>1000, 1200, ...,1500	>1000, 1500, ... 2000
Transverse Mode	Near TEM <sub>00</sub>	Near TEM <sub>01</sub>
Operating Mode	CW	
Power Stability (rms, over 4 hours)	<1%, <3%, <5%, <10%	
Warm-up Time (minutes)	<10	
M <sup>2</sup> Factor	<1.5	<3.0
Beam Divergence, Full Angle (mrad)	<1.2	
Beam Diameter at the Aperture (mm)	~ 2.0	~3.0
Beam Height from Base Plate (mm)	68.2	
Polarization Ratio	>100:1	
Operating Temperature (C°)	20 ~ 30	10 ~ 35
Power Supply (90-264VAC or 5V DC)	PSU-H-FDA , PSU-N-OEM or PSU-H-LED	
Modulation	TTL on/off (Optional: TTL or analog 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz modulation)	
Expected Lifetime (hours)	10000	
Warranty Period	1 year	

### Ordering Information: MBL-N-457-A-B-C

A: maximum output power	B: power stability	C: power driver
1000 – 1000 mW	1 – 1%	1 - PSU-H-FDA
1500 - 1500 mW	3 – 3%	2 - PSU-N-OEM
2000 – 2000 mW	5 – 5%	3 - PSU-H-LED
X - other	10 - 10%	

<p style="text-align: center;"><b>MBL-N-457</b></p>  <p style="text-align: center;">240(L)×99(W)×94(H) mm<sup>3</sup>, 2.6 kg</p>	<p style="text-align: center;"><b>PSU-H-LED</b></p>  <p style="text-align: center;">268 (L) ×145(W) ×106 (H) mm<sup>3</sup>, 2.6 kg</p>
	
<p style="text-align: center;"><b>PSU-H-FDA</b></p>  <p style="text-align: center;">238 (L) ×146(W) ×102 (H) mm<sup>3</sup>, 2.3 kg</p>	<p style="text-align: center;"><b>PSU-N-OEM</b></p>  <p style="text-align: center;">215 (L) ×129 (W) ×122 (H) mm<sup>3</sup>, 2.145 kg</p>
