

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

**Model #:** MBL-W-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.



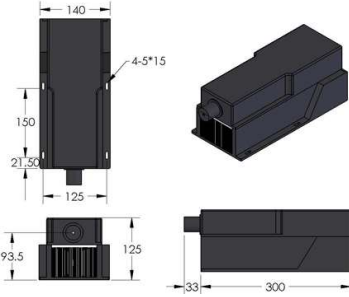
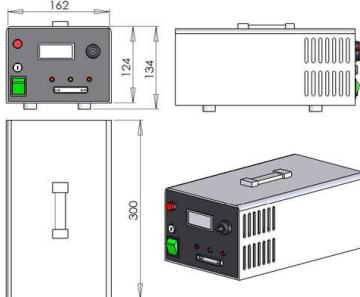

**Application:** fluorescence sensors, Raman spectrum, laser printing, holography, laser display, submarine communication, biomedicine, laser lighting show, etc.

### Specifications

Model Number	MBL-W-457A	MBL-W-457B
Wavelength (nm)	457±1	
Output Power (mW)	>3000	>3000, 3500, 4000, ... 10000
Transverse Mode	TEM <sub>00</sub>	Near TEM <sub>00</sub>
Operating Mode	CW	
Power Stability (rms, over 4 hours)	<1%, 3%, <5%, <10%	3%, <5%, <10%
Warm-up Time (minutes)	<10	
M <sup>2</sup> Factor	3.0 ~ 6.0	
Beam Divergence, Full Angle (mrad)	<2.0	
Beam Diameter at the Aperture (mm)	~4.0	
Beam Height from Base Plate (mm)	93.5	
Pointing Stability over Temperature (μrad/°C)	<50	
Polarization Ratio	>100:1	
Noise of Amplitude (rms, 1 ~ 20 MHz)	~ 30%	
Operating Temperature (C°)	10 ~ 35	
Power Supply (90-264VAC or 5V DC)	PSU-W-FDA or PSU-W-LED	
Modulation	TTL or Analog 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz modulation Optional	

**Ordering Information:** MBL-W-457A-C-D-E; MBL-W-457B-C-D-E

C: maximum output power	D: power stability	E: power driver
3000 - 3000 mW	1 - 1% (457A only)	1 - PSU-N-FDA
4000 - 4000 mW	3 - 3%	2 - PSU-N-LED
5000 - 5000 mW	5 - 5%	
8000 - 8000 mW	10 - 10%	
10000 - 10000 mW		
X - other		

MBL-W-457	PSU-W-LED
 <p data-bbox="461 487 737 512"><b>333(L)×140(W)×125(H) mm<sup>3</sup>, 6.1 kg</b></p>	 <p data-bbox="941 487 1224 512"><b>300 (L) ×162(W) ×134(H) mm<sup>3</sup>, 5.2 kg</b></p>
	
PSU-W-FDA	
 <p data-bbox="454 1167 737 1192"><b>307 (L) ×168(W) ×123(H) mm<sup>3</sup>, 5.1 kg</b></p>	
