



800 mW Output

Low Divergence, Low Noise

Diode Pumped, Compact, Air-Cooled

System Specifications

BL457-800

Wavelength	457 nm	
Output Power	800 mW	
Beam Diameter ¹	3.0 mm	
Transverse mode	Near TEM ₀₀	
Beam divergence ²	< 1.5 mrad	
M ² factor	M ² ≤ 2.0	
Point stability ³	< 0.05mrad	
Polarization ratio	> 100:1	
Power stability ⁴	< 5%; 10% @ 4 hours	
Noise of Amplitude (rms, 1-20MHz)	< 5% or N/A	
Beam Height	45 mm	
Warm-up time	< 15 minutes	
TTL / Analog Modulation	Optional (2KHz ~ 30 KHz)	
Expected lifetime	10,000 hours	
Warranty time	1 year	
Operating temperature	10-35°C	
Power supply	80-260 VAC	
Dimensions (L×W×H)	Laser Head Power Supply	211 × 88 × 74 mm 238 × 146 × 102 mm
Weights	Laser Head Power Supply	1.6 Kg 2.3 kg

Note:

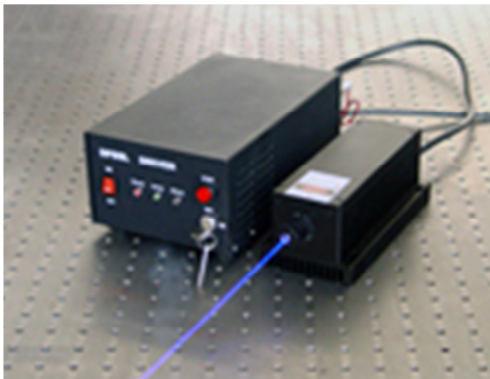
All specifications at 457 nm unless otherwise noted. All performance specifications guaranteed at specified output power only.

1 1/e² at exit port.

2 Full-angle divergence.

3 Measured as far-field x and y positions over a 25°C to 35°C temperature change.

4 Measured over 4 hours after 15 minute warm-up.

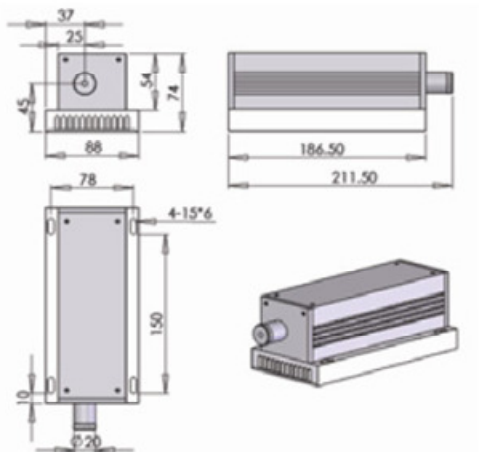


This 457nm CW Blue Laser is a Diode-Pumped Solid-State (DPSS) Laser with Compacted, Rugged and Air-cooled geometry. The laser system includes one Laser Driver and one Laser Head, they are connected with a cable for compliance with FDA regulations as an OEM laser product, and can be operated over a wide temperature range with a Low Noise and High Stability laser output.

Laser Head



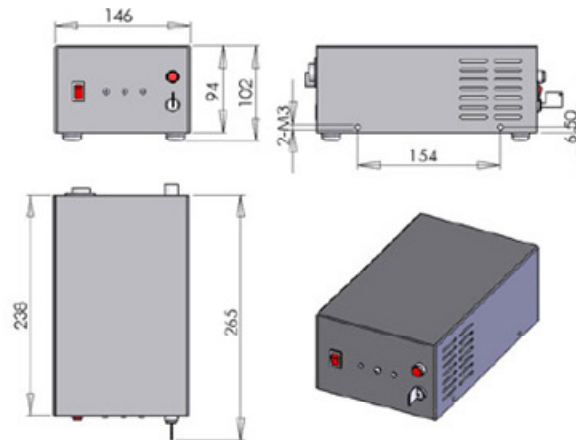
211.5(L)×88(W)×74(H) mm³, 1.6 kg



Laser Power



238 (L) ×146(W) ×102 (H) mm³, 2.3 kg



All Dimensions are in mm

Laser Lab Components, Inc. (LLCI) follows a policy of continuous product improvement. Specifications are subject to change without notice.

LLCI offers a limited warranty for all BL™ systems. For full details on warranty coverage, please refer to the Service and Support section at www.LaserLabComponents.com, or contact your local Sales or Service Representative.

