



1000 mW Output

Low Divergence, Low Noise

Diode Pumped, Compact, Air-Cooled

System Specifications		BL457-1000
Wavelength		457nm
Output Power		1000mW
Beam Diameter ¹		2.0 mm
Transverse mode		Near TEM ₀₀
Beam divergence ²		<2.0 mrad
M ² factor		M ² ≤ 2.0
Spectral linewidth		<0.1nm
Point stability ³		<0.05mrad
Polarization ratio		>100:1
Power stability ⁴		5% @ 4 hours
Warm-up time		5minutes
Expected lifetime		10000 hours
Warranty time		1 year
Operating temperature		10-35°C
Power supply		80-260VAC
Power Consumption		400W
Dimensions (L×W×H)	Laser Head	340×140×125mm
	Power Supply	340×275×142mm
Weights	Laser Head	5Kg
	Power Supply	13kg

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.

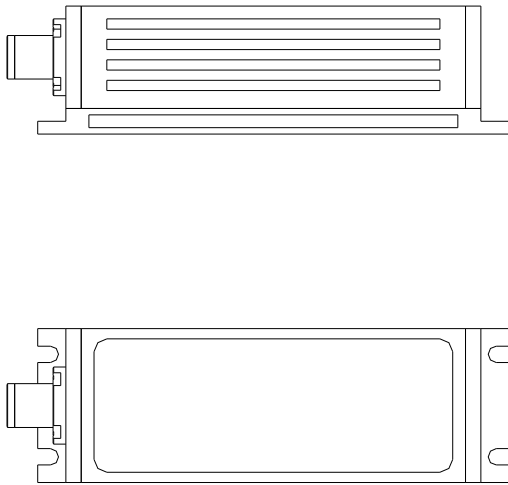
457nm

CW Blue Lasers

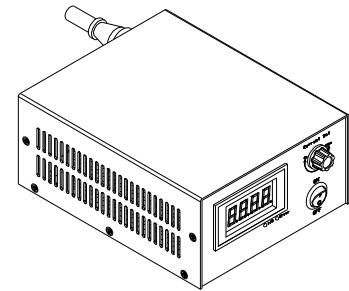
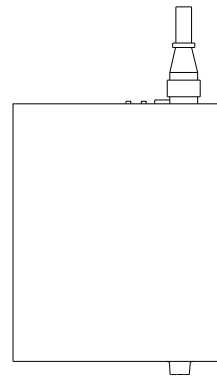
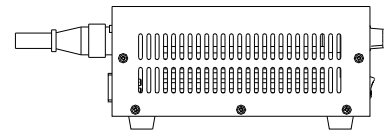
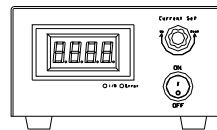


This 457nm CW Blue Laser is a Diode-Pumped Solid-State (DPSS) Laser with Compacted, Rugged and Air-cooled geometry. The laser system includes one Laser Driver and one Laser Head, they are connected with a cable for compliance with FDA regulations as an OEM laser product, and can be operated over a wide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

Laser Head



Laser Power



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.

www.LaserLabComponents.com ^d

