



1000mW ~ 3000mW Output

Low Divergence, High Stability

Diode pumped, Air-Cooled

System Specifications		IRL1319-1000	IRL1319-3000
Wavelength		1319 nm	1319 nm
Output Power		1000 mW	3000 mW
Beam Diameter ¹		2.0 mm	2.0 mm
Transverse mode		TEM ₀₀	TEM ₀₀
Beam divergence ²		<2.0 mrad	<2.0 mrad
M ² factor		M ₂ ≤1.2	M ₂ ≤1.2
Spectral linewidth		<0.1cm ⁻¹	<0.1cm ⁻¹
Point stability ³		<0.05 mrad	<0.05 mrad
Polarization ratio		>100:1	>100:1
Power stability ⁴		5% @ 4 hours	5% @ 4 hours
Warm-up time		5 minutes	5 minutes
Expected lifetime		10,000 hours	10,000 hours
Warranty time		1 year	1 year
Operating temperature		10-35°C	10-35°C
Power supply		80-260 VAC	80-260 VAC
Power Consumption		100W	100W
Dimensions (L×W×H)	Laser Head	160×60×50mm	320×120×120mm
	Power Supply	194×160×90mm	420×360×80mm
Weights	Laser Head	0.38Kg	3Kg
	Power Supply	1kg	5kg

Note:

All performance specifications guaranteed at specified output power only.

1 1/e² at exit port.

2 Full-angle divergence.

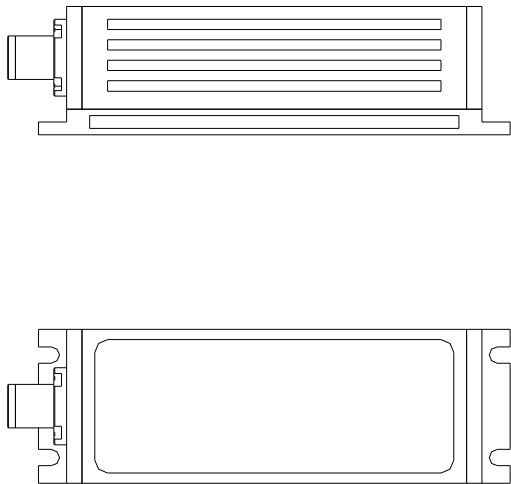
3 Measured as far-field x and y positions over a 25°C to 35°C temperature change.

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

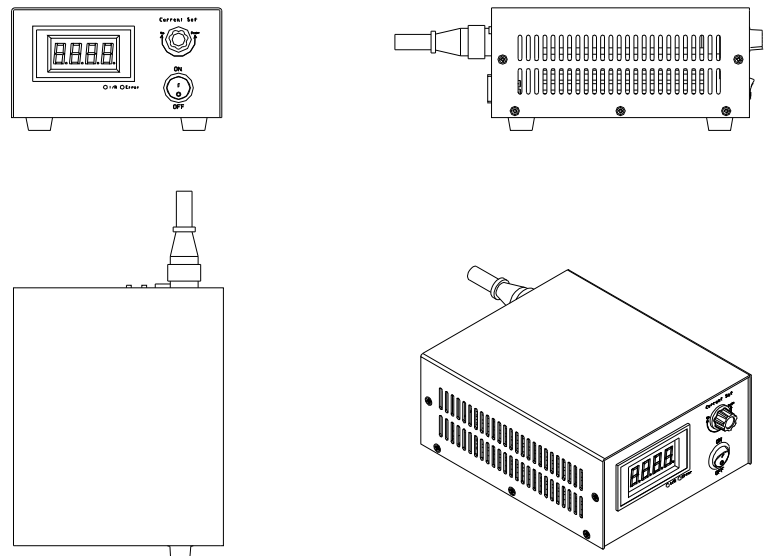


This 1319nm Series CW IR Laser is a Diode-Pumped Solid-State (DPSS) Laser with Compacted, Rugged and Air-cooled geometry. The laser system includes one Laser Driver and one Laser Head, they are connected with a cable for compliance with FDA regulations as an OEM laser product, and can be operated over 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 MB™ 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.

	VISIBLE AND INVISIBLE LASER RADIATION. AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION. CLASS 4 LASER PRODUCT	
	λ	MAX PEAK POWER
	0.26-0.27 μm	50 mW
	0.36-0.38 μm	100 mW
	0.52-0.54 μm	200 mW
	1.05-1.07 μm	250 mW