High Energy Nd:YAG
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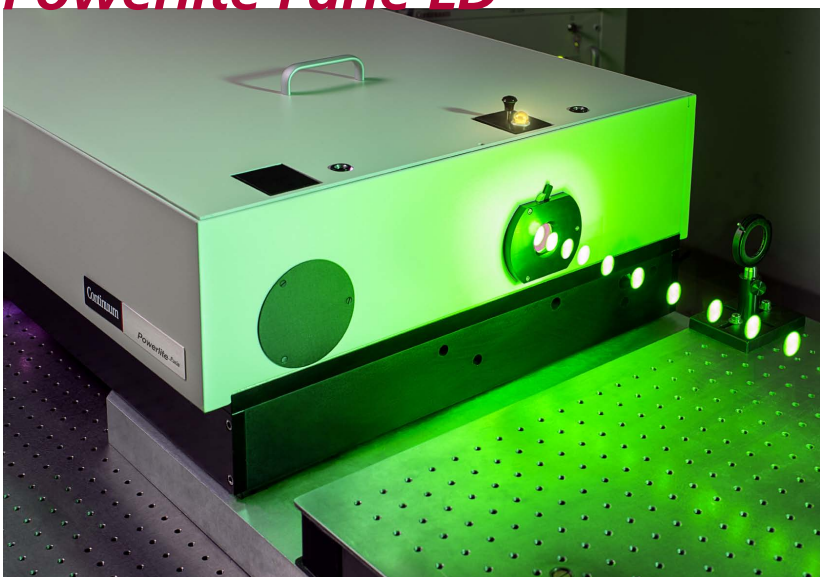
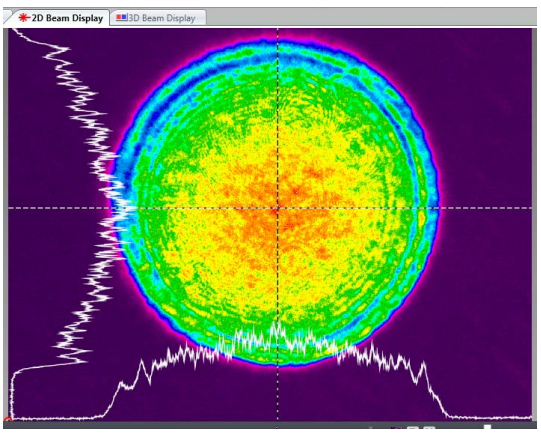
Powerlite Furie™ LD



Powerlite Furie LD, 5 J at 532 nm in a low divergent beam

Built on the proven Powerlite laser platform and using our energy through efficiency approach, the Furie LD is a gaussian coupled system that delivers 5 J of green, and 7 J of IR ensuring excellent beam profile and overall performance that's best-in-class in all aspects of stability. This compact and robust laser is designed to operate 24/7 for set-and-forget industrial applications while providing flexibility and versatility required by scientific users, making it ideal for materials processing applications, harmonic generation, ranging and LIDAR.



5J Green

5 J Green, 7 J IR

10 Hz repetition rate

Superior beam quality

Low divergence

Proven Powerlite platform

Convenient Intuitive Graphical User Interface

Distributed intelligence power supply

Ideal for materials processing, Harmonic Generation, Ranging and LIDAR

Continuum®
The High Energy Laser Company™

Powerlite Furie LD Specifications

Description PL Furie LD	1064nm	532nm
Repetition Rate (Hz)	10	10
Energy (J)	7J	5J
Pulsewidth (nsec)	<15	<15
Divergence (mrad)	<0.5	<0.5
Beam Pointing Stability[1] (±µrad)	<40	<40
Beam Diameter (±1 mm)	20	20
Beam Spatial Profile (Gaussian fit)	>0.8	>0.8
Warm up time[2] (min)	<30	<30
Jitter[3] (±ns)	1.0	1.0
Energy Stability (±% RMS)	1.0	1.5
Energy Drift[4] (±%)	<1.0	<1.5
Polarization	horizontal	vertical

As a part of our continuous improvement program, all specifications are subject to change without notice.

Modular, single rack power supply

Notes

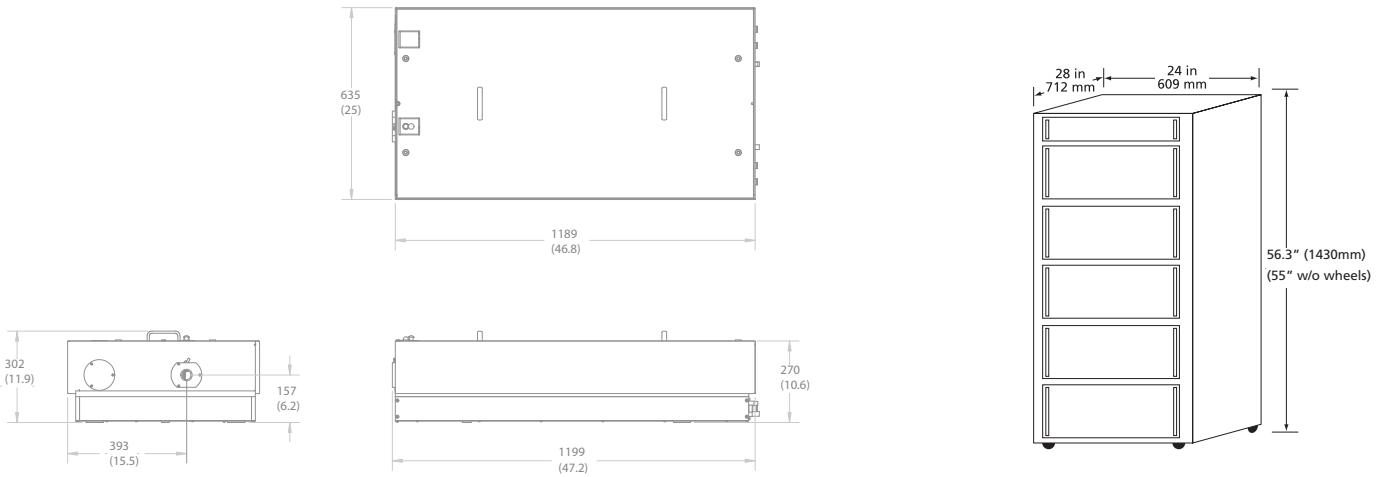
1. 99.9% shots will be <±30 µrads with ΔT room <±3°C
2. Time to reach full energy
3. With respect to external trigger, unseeded
4. Average for 8 hours with ΔT±3°C

Powerlite Furie LD System Requirements

Size	Optical Head (LxWxH)	1199 x 635 x 302 mm (47.2 x 25 x 11.9”)
	Power Supply (LxWxH)	609 x 712 x 1430 mm (24x28x56.3”) H=55” w/o wheels
Weight	Optical Head	245 kg (540 lbs)
	Power Supply	281 kg (620 lbs)
Water	Service	two cooling groups, each requiring 1-3 GPM (gallons/ minute) at 10-40 PSI pressure drop
	Temperature	<22° C / 70° F (higher flow rate for higher temperature)
Electrical Service		200-240 V~, 50/60 Hz, single Ø, 40 A max.
Room Temperature		18-30° C / 65-87° F (operation range)
Umbilical Length		4.5 m (15 ft)

Physical Layout

Dimensions in mm (inch)



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