



IndyStar

Fast Pulse, High Precision Processing

IndyStar is a rugged high-duty cycle excimer laser designed for fast pulse frequency applications as high as 2000 Hz. Based on proven ALMETA tube technology, the Semi-S2 certified IndyStar operates over many billion pulses at ultra-short 193 nm and 248 nm wavelengths. The IndyStar series is engineered to meet the highest demands in every aspect of an industrial laser.

FEATURES

- 1 kHz and 2 kHz repetition rate
- Semi-S2 certified
- ALMETA tube inside
- POWERLOK and TIMELOK
- Use of premix gas

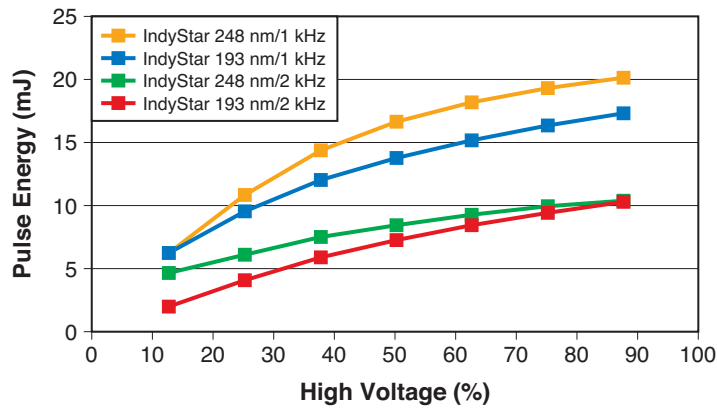
APPLICATIONS

- Photomask Inspection
- Inkjet Nozzle Drilling
- Optics Testing



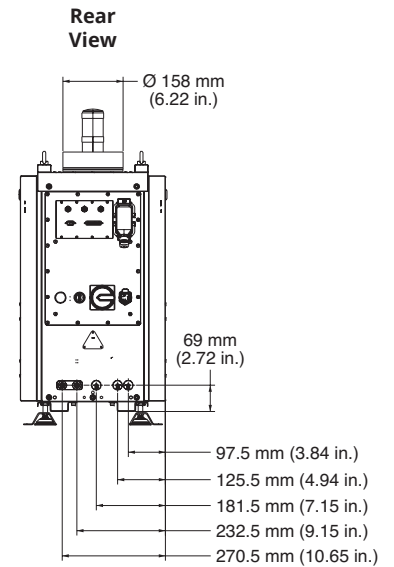
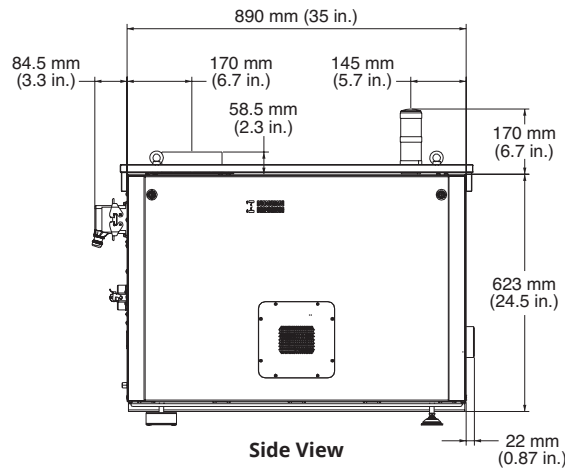
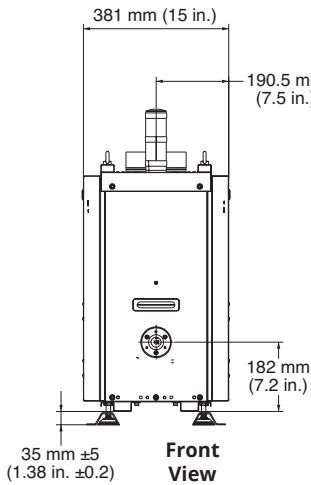
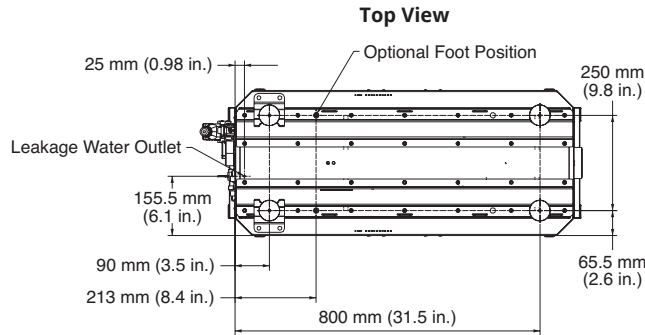
SPECIFICATIONS	IndyStar 193 - 1 kHz	IndyStar 193 - 2 kHz	IndyStar 248 - 1 kHz	IndyStar 248 - 2 kHz
Wavelength (nm)	193	193	248	248
Recommended Stabilized Pulse Energy (mJ)	8	4	12	6
Recommended Stabilized Pulse Power (W)	8	8	12	12
Energy Stability (sigma, %)	<2	<2	<2	<2
Max. Repetition Rate (Hz)	1000	2000	1000	2000
Beam Dimension (FWHM, mm, V x H)	6.0 x 2.7	5.7 x 2.3	5.8 x 2.8	5.8 x 2.7
Beam Divergence (FWHM, mm, V x H)	<3.5 x 1.5	<3.5 x 1.5	<3.0 x 2.3	<3.5 x 1.5
Pulse Duration (FWHM, ns)	5 ±2	4 ±1	6 ±2	4 ±1
Cooling	Air/Water	Water	Air/Water	Water
Weight	135			
Laser Dimensions	974 x 381 x 838 mm (48.23 x 7.8 x 8.96 in.)			
Electrical	230 V, 50/60 Hz, 2000 VA, single or two phases			

IndyStar Series Energy Performance



MECHANICAL SPECIFICATIONS

Laser Head



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Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice. Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all IndyStar Series lasers. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative. Printed in the U.S.A. MC-038-08-0M1017Rev.A Copyright ©2017 Coherent, Inc.

