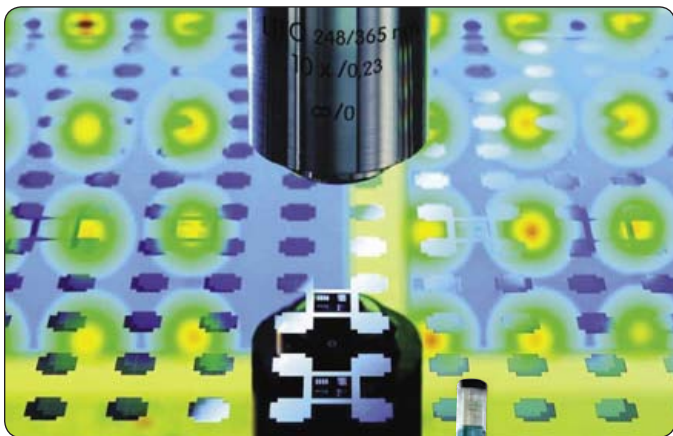


IndyStar Series

High Repetition Rate Excimer Laser

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.



Superior Reliability & Performance

IndyStar Features:

- 1 kHz and 2 kHz repetition rate
- Semi-S2 certified
- ALMETA tube inside
- POWERLOK and TIMELOK
- Use of premix including partial gas replacements (PGR)

IndyStar Options:

- Chiller for water cooling

IndyStar Applications:

- Photomask Inspection
- Inkjet Nozzle Drilling
- Optics Testing

IndyStar Series

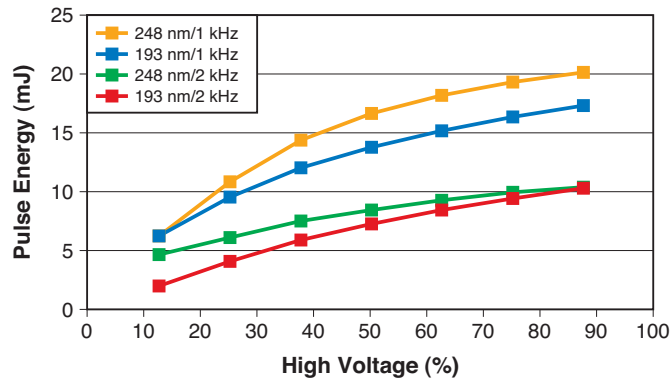
High Repetition Rate Excimer Laser

System Specifications

IndyStar 1 kHz/2 kHz

Wavelength (nm)	193	193	248	248
Stabilized Pulse Energy (mJ)	8	4	12	6
Stabilized Pulse Power (W)	8	8	12	12
Maximum Repetition Rate (Hz)	1000	2000	1000	2000
Energy Stability (sigma, %)	2			
Pulse Duration (FWHM, ns)	5 ±2	4 ±1	6 ±2	4 ±1
Beam Dimension (V x H, FWHM, mm)	6.0 x 2.7	5.7 x 2.3	5.8 x 2.8	5.8 x 2.7
Beam Divergence (V x H, FWHM, mm)	3.5 x 1.5	3.5 x 1.5	3.0 x 2.3	3.5 x 1.5
Electrical (kVA)	230 V, 50/60 Hz, 2000 VA, single or two phases			
Cooling	Air/Water	Water	Air/Water	Water
Weight	135 kg (297.6 lbs.)			
Dimensions (L x W x H)	974 x 381 x 838 mm (38.3 x 15.0 x 33.0 in.)			

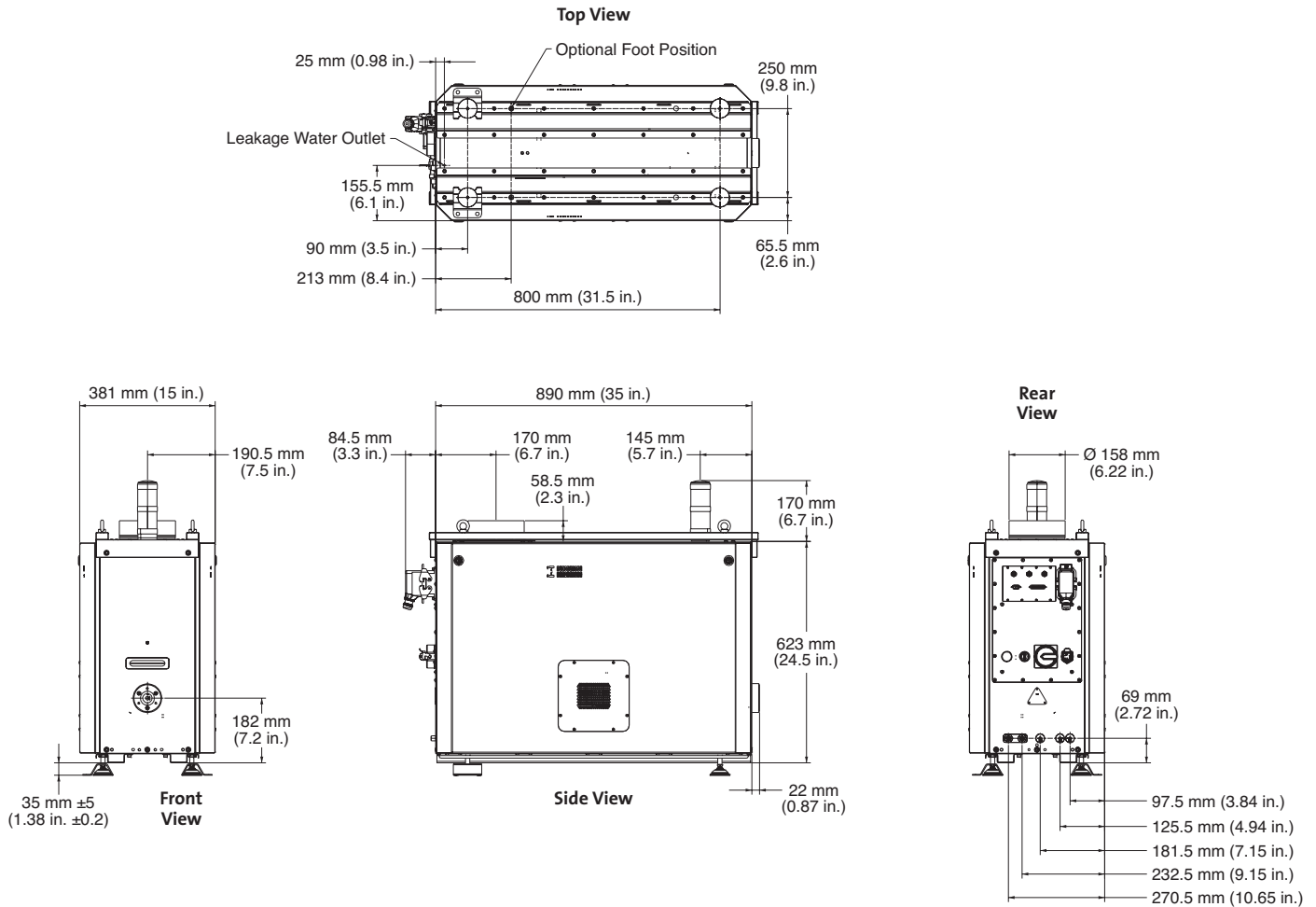
ExciStar XS Series Pulse Energy Performance



IndyStar Series

High Repetition Rate Excimer Laser

Mechanical Specifications



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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.

