

Polaris 300

INDUSTRIAL Q-SWITCHED DPSS LASER

Laser Specifications¹

Repetition Rate (Hz)	Single shot - 100	
Energy ² (mJ)	1064 nm	≥ 15.0
	532 nm	≥ 10.0
	355 nm	≥ 3.0
	266 nm	≥ 2.0
Energy Stability ³ (%)	1064 nm	≤ 6%
	532 nm	≤ 6%
	355 nm	≤ 10%
	266 nm	≤ 10%
Pulse Width ⁴ (ns)	< 12ns	
Beam Pointing (μrad)	< 250	
Divergence (mrad)	< 9	
Polarization directions from IR to UV ⁵	HHVV	
Polarization Ratio	> 100:1	
Warm up time	< 15 min	

- Notes:
1. Specification listed is for a Quad-lite or Tri-lite configuration with user-selectable wavelengths. Beam blended Tri-lite output (1064/532/355 nm or 1064/532/266 nm) is also available
 2. Energy per pulse measured at 100 Hz operation
 3. Energy Stability is expressed as 100% of shots, peak-to-peak, 2000 shots continuous
 4. Pulse width (FWHM) @ 1064 nm
 5. H for Horizontal, V for Vertical, other options available.



VISIBLE AND INVISIBLE LASER RADIATION, AVOID DIRECT OR SCATTERED RADIATION.
Wavelength 1064 nm / 150 mJ / 7 ns
Wavelength 532 nm / 100 mJ / 6 ns
Wavelength 355 nm / 50 mJ / 5 ns
Wavelength 266 nm / 30 mJ / 5 ns
CLASS 4 LASER PRODUCT

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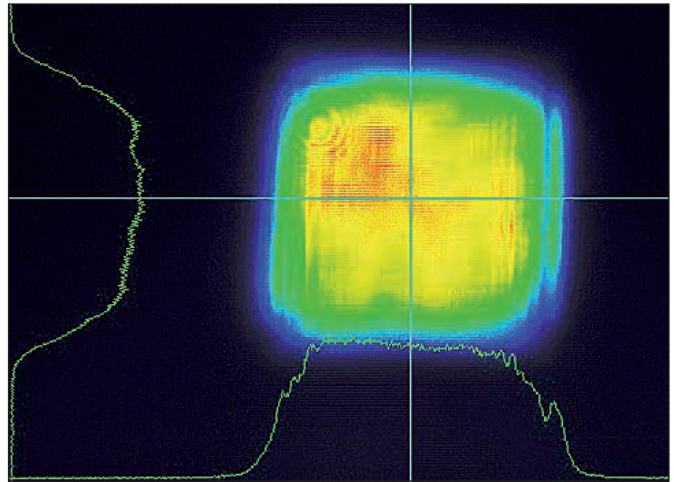
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Beam Profile in 1064nm



- Flat-top beam for larger usable portion.
- Higher small-area energy density.
- Beam size and profiles consistent across wavelengths

Physical Characteristics

	Laser Head	Power Supply
Depth	14.25" (362 mm)	18" (457mm)
Width	5.50" (140 mm)	19" (483 mm)
Height	6.33" (161 mm)	3.5" (89 mm)
Weight	23.1 lbs. (10.5 kg)	13 lbs. (5.9 kg)

Operating Requirements

Temperature	20 to 250°C (68 to 770°F)
Relative Humidity	20 to 80% non-condensing
Voltage	100—120/240 VAC (laser), 50/60 Hz
Power Consumption	< 300 watts