

> FEATURES AND BENEFITS

GREEN Nd:YAG DPSS LASER SYSTEM



- Up to 200 Watts @ 10 kHz, 532 nm
- Single oscillator design
- Sealed laser head
- Long life diode bars
- Output beam characteristics maintained over power operating range
- Variable power attenuation available
- eDrive™ control electronics with digital remote control
- Fiber delivery option

The Patara laser system is a diode-pumped solid-state (DPSS) laser system that is offered with up to 200 Watts of output power at 532nm. It is rugged, reliable, and is easily integrated into original equipment.

The Patara laser is economically priced, features long life laser diode bars and is ideally suited for use in industrial manufacturing applications.

Patara lasers feature field proven Northrop Grumman DPSS gain modules with versions that can operate TEM₀₀ or multimode, and are powered by the eDrive Nitro controller.

We offer a laser cavity design service using our modeling software to create customer specific Patara laser systems. Please contact CEO@ for more information.

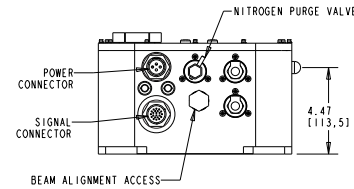
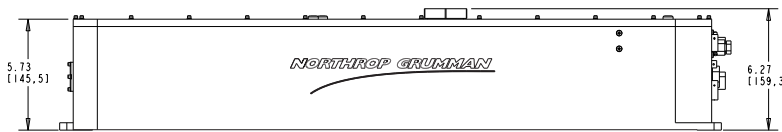
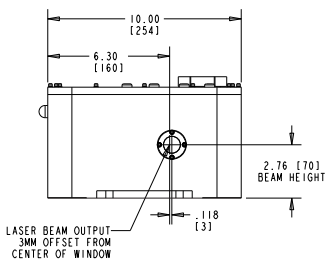
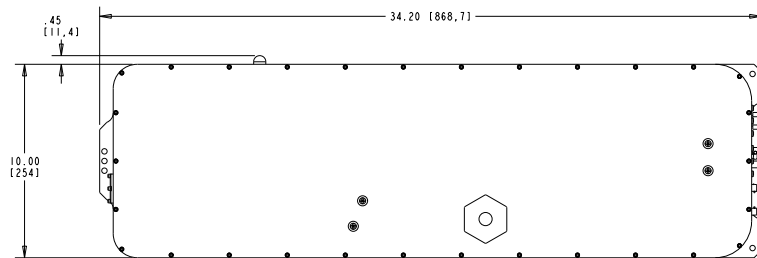
Patara™ HP

NORTHROP GRUMMAN

PATARA SPECIFICATIONS

Patara Specifications*				
Parameter	Configurations			Units
Model	PA-050-QMG	PA-100-QMG	PA-200-QMG	—
Laser Type	DPSS Nd:YAG	DPSS Nd:YAG	DPSS Nd:YAG	—
Wavelength	532	532	532	nm
Repetition Rate	4 to 30	4 to 30	10 to 15	kHz
Output @ 10 kHz	50	100	200	W
Spatial Mode	Multimode	Multimode	Multimode	—
Beam Diameter @ Output Window @ 10 kHz	< 3.5	< 3.5	< 4	mm
Beam Quality (M²) @ 10 kHz	< 15	< 20	< 25	—
Beam Divergence (Full Angle) @ 10 kHz	< 5.0	< 5.0	< 8	mrad
Pulse Width (FWHM) @ 10 kHz	< 250	< 150	< 120	nsec
Pulse-to-Pulse Stability @10 kHz	< 1.5	< 1.5	< 1.5	% rms
Output Stability Over 8 hr @ 10 kHz	< 2	< 2	< 2	% rms
Polarization	Linear	Linear	Linear	—
Electrical @ 50/60 Hz (Auto Ranging)	85-264	85-264	85-264	VAC
Operating Temperature (non-condensing)	18-30°C	18-30°C	18-30°C	°C
Dimensions	34 x 10 x 7	34 x 10 x 7	34 x 10 x 7	in
Cooling @ 20°C	1500 @ 2.0	2000 @ 2.0	2500 @ 2.0	W @ GPM
Pump Module	REA4006-1C4H-FA1	REA5006-1C4H-FA1	REA5008-1C4-CA1	—

*Preliminary Specifications - Please contact CEO® if you require different specifications



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This Product is covered by one or more of the following Patents: 5,898,211 5,985,684 5,913,108 6,310,900 Other US and Foreign Patents Pending.

DANGER

VISIBLE
LASER RADIATION

*AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION.

Wavelength	Energy	Pulsewidth	PRF
1064 nm	< 250 uJ	75 ns	10 kHz
532 nm	25 mJ	70 ns	10 kHz

CLASS IV LASER PRODUCT

Rev. E 10/13 ISO 9001:2000 REGISTERED