

> **FEATURES AND BENEFITS**

GREEN Nd:YAG DPSS LASER SYSTEM



- Sealed laser head
- Long life diode bars
- Output beam characteristics maintained over power operating range
- eDrive control electronics with digital remote control.

The Patara laser system is an all-new diode-pumped solid-state (DPSS) laser system that is offered with up to 100 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 diode bars and is ideally suited for use in industrial manufacturing applications.

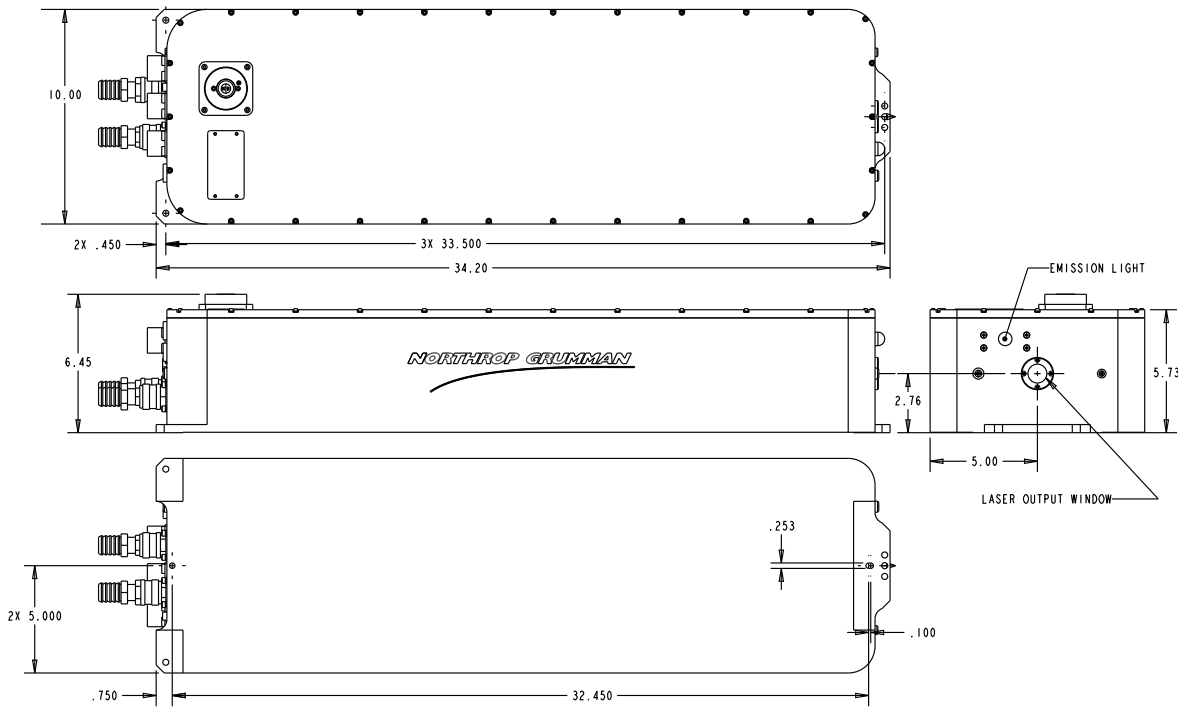
Patara lasers come standard with field proven Northrop Grumman DPSS gain modules, with versions that can operate TEM₀₀ or multimode, and powered by the eDrive Nitro controller.

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 SPECIFICATIONS

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

*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
532 nm	13 mJ	70 ns	4-30 Hz
532 nm	25 mJ	70 ns	4-30 Hz

CLASS IV LASER PRODUCT

Rev. A 10/09 ISO 9001:2000 REGISTERED