

Patara™ II

> FEATURES AND BENEFITS

DPSS LASER SYSTEM



- Economically Priced
- SilentLight DPSS module technology for ultra stable TEM₀₀ operation
- Sealed laser head
- Long life diode bars

The Patara™ II laser system is a significantly cost reduced version of the field proven Patara laser system. This diode-pumped solid-state (DPSS) laser system is offered with up to 16 Watts of output power at 532 nm or 20 Watts at 1064 nm.

The Patara II laser features long life laser diode bars and Swagelok® laser head coolant hardware making it very robust and reliable. It is ideally suited for use in industrial manufacturing applications.

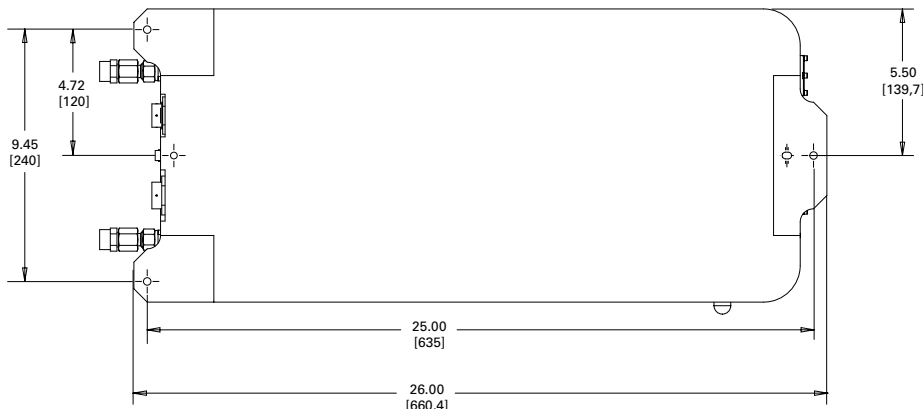
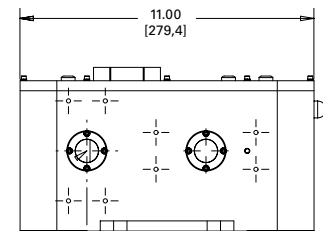
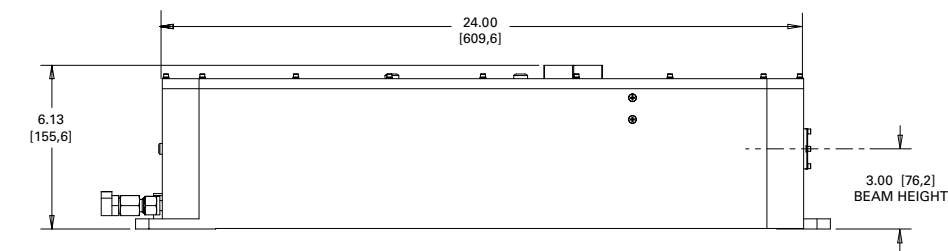
Patara II lasers come as standard with field proven Northrop Grumman® DPSS gain modules and are powered by the eDrive™ Nitro controller.

A laser cavity design service using modeling software can create customized Patara II laser systems. Please contact your local sales office for more information.

Patara™ II

PATARA SPECIFICATIONS

Patara Specifications			
Parameter	Configurations		Units
Model	PA-020-QTI	PA-016-QTG	—
Laser Type	DPSS Nd:YAG	DPSS Nd:YAG	—
Wavelength	1064	532	nm
Repetition Rate	5 to 30	4 to 15	kHz
Output	20 @ 10 kHz	16 @ 9 kHz	W
Spatial Mode	TEM ₀₀	TEM ₀₀	—
Beam Diameter @ Output Window	< 1.5 @ 10 kHz	< 0.9 @ 9 kHz	mm
Beam Quality (M ²)	< 1.3 @ 10 kHz	< 1.3 @ 9 kHz	—
Beam Divergence (Full Angle)	< 1.7 @ 10 kHz	< 1.7 @ 9 kHz	mrاد
Pulse Width (FWHM)	< 100 @ 10 kHz	< 80 @ 9 kHz	nsec
Pulse-to-Pulse Stability	< 1.5 @ 10 kHz	< 1.5 @ 9 kHz	% rms
Output Stability Over 8 hr	< 3 @ 10 kHz	< 3 @ 9 kHz	% rms
Polarization	Linear	Horizontal	—
Electrical @ 50/60 Hz (Auto Ranging)	85-264	85-264	VAC
Operating Temperature (non-condensing)	18-30°C	18-30°C	°C
Dimensions	26 x 11 x 6	26 x 11 x 6	in
Cooling @ 20°C	500 @ 1.5	500 @ 1.5	W @ GPM
Pump Module	RBA24T-1C2-CA1	RBA24T-1C2-CA1	—



Dimensions in Inches [cm]

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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.

