500 DPSS Laser System

Features

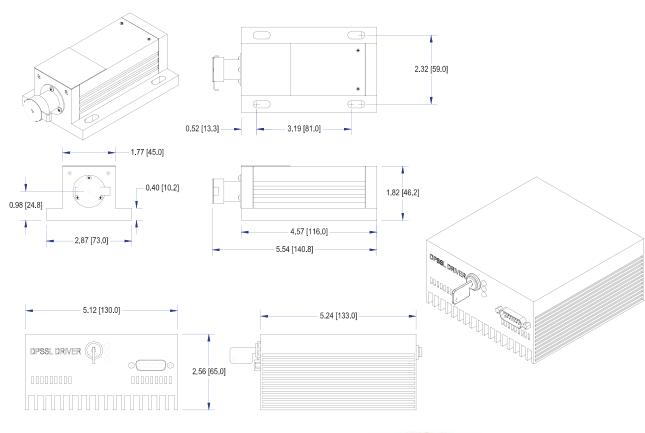
- Exceptional Beam Quality and Stability
- Custom Packaging & Beam
 Characteristics Available
- No Additional Heatsinking Required
- Fast Warm-up
- Exceptional Warranty

Solid State Design

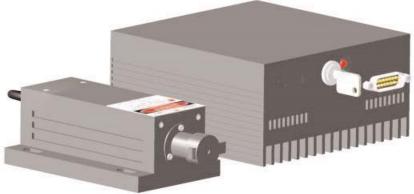
The 500 is a continuous wave, diode-pumped solid state laser that is offered at 457, 473 and 532nm with output power from 5 to 100mW. The laser has been designed to allow for various packaging and beam configurations to meet a range of OEM demands. The laser requires no additional heatsinking permitting smaller space requirements and easier integration into OEM equipment.

Enduring Beam Quality

The 500 laser delivers low noise and exceptional beam quality, critical for today's high resolution applications. Extremely fast power and pointing stability warm-up allow for quick results from your instrumentation.







500 DPSS Specifications

Applications

- Flow Cytometry
- DNA Sequencing
- Capillary Electrophoresis
- Spectroscopy
- Confocal Microscopy
- Photo Finishing
- Graphic Arts

Product Specifications	H500NGL002	H500NBL002	H500NDB002	
Wavelength	532 ±1 nm	473 ±1 nm	457 ±1 nm	
Output Power	Up to 100 mW	Up to 100 mW	Up to 5 mW	
Power Stability (over 8 hours)	±1%	±3%	±5%	
Spatial Mode	TEM _{OO}	TEM _{OO}	TEM _{OO}	
M ²	<1.2	<1.2	<1.2	
Beam Diameter @ 1/e ²	~2.0 mm	~2.0 mm	~2.0 mm	
Beam Divergence	<1.5 mrad	<1.5 mrad	<1.5 mrad	
Polarization Ratio*	>100:1	>100:1	>100:1	
Pointing Stability	<0.05 mr	<0.05 mr	<0.05 mr	
Static Alignment Tolerances**				
Beam Position (24.8mm)	±0.3mm	±0.3mm	±0.3mm	
Beam Angle	±1.0mrad	±1.0mrad	±1.0mrad	
Noise (1-20MHz)	<1% rms	<3% rms	<3% rms	
Warm-up Period (Output Power)	<15 min.	<15 min.	<15 min.	
Operating Parameters				
Laser Class	3B (IIIb)			
Input Voltage	100-240 ±10% VAC or 5 VDC			
Operating Temperature	10-35°C			
Mounting Position	Any			
Dimensions (LxWxH)				
Laser Head (mm)	140 X 73 X 46			
Driver (mm)	133 X 130 X 65			
Weights				
Laser Head	0.6 kg (1.3 lbs)	0.6 kg (1.3 lbs)		
Driver	1.2 kg (2.6 lbs)			

Specifications subject to change without notice.

* ±5° vertical with respect to baseplate.

** Static alignment tolerances are relative to baseplate.







