

## Spectralus<sup>®</sup> Atto Green Laser Source<sup>(a)</sup> Model Atto-40-CW<sup>(b)</sup>



### SPECIFICATIONS<sup>(c)</sup>

Rev 1.0

Parameter	Symbol	Unit	Min	Typical	Max
<b>1.0 Optical Performance</b>					
a	Optical Output Power, CW	P <sub>o</sub>	mW	40	
b	Green Center Wavelength, Operating	λ <sub>c</sub>	nm	532	
c	Beam Quality (M-Squared)	M <sup>2</sup>		1.2	
d	Natural Beam Divergence		mrad	10	
e	Intensity Noise (RMS), over range [10Hz to 2 MHz]		%	0.50	0.70
f	Intensity Noise (RMS), over range [10Hz to 20 kHz]		%	0.05	0.06
g	Power Stability		%	+/-2% over 8 hr at fixed temp.	
h	Polarization <sup>(d)</sup>			Horizontal, Linear > 100:1	
<b>2.0 Electrical-Optical Performance</b>					
a	Laser Operating Current	I <sub>o</sub>	A		0.6
b	Laser Operating Voltage	V <sub>o</sub>	V	1.8	
c	Nominal Operating Mode			CW	
d	Wall-plug Efficiency	PCE	%	5	
<b>3.0 Thermal Performance</b>					
a	Case Operating Temperature	T <sub>o</sub>	°C	10	50
<b>4.0 Mechanical</b>					
a	Length	L	mm	12.4	
b	Width	W	mm	6.8	
c	Height	H	mm	3.9	
d	Volume	V	cm <sup>3</sup>	0.33	
<b>5.0 System Components</b>					
a	Laser Head			Included	
b	Controller and Cables			Included	
c	User Guide			Included	
d	Power Supply			Optional	
e	Mounting Plate / Heat Sink			Optional	

- a. Protected under U.S. Patents 7,742,510 and 7,413,635. Other U.S. and international patents pending.
- b. This Atto laser model is optimized for low-noise CW operation.
- c. All specifications are subject to change without notice.
- d. Polarization is linear and is parallel to the package base.
- e. See product drawings on the next page for the package version with monitor photodiode.

## LASER HEAD DIMENSIONS (in mm):

Atto Laser (with monitor photodiode):

