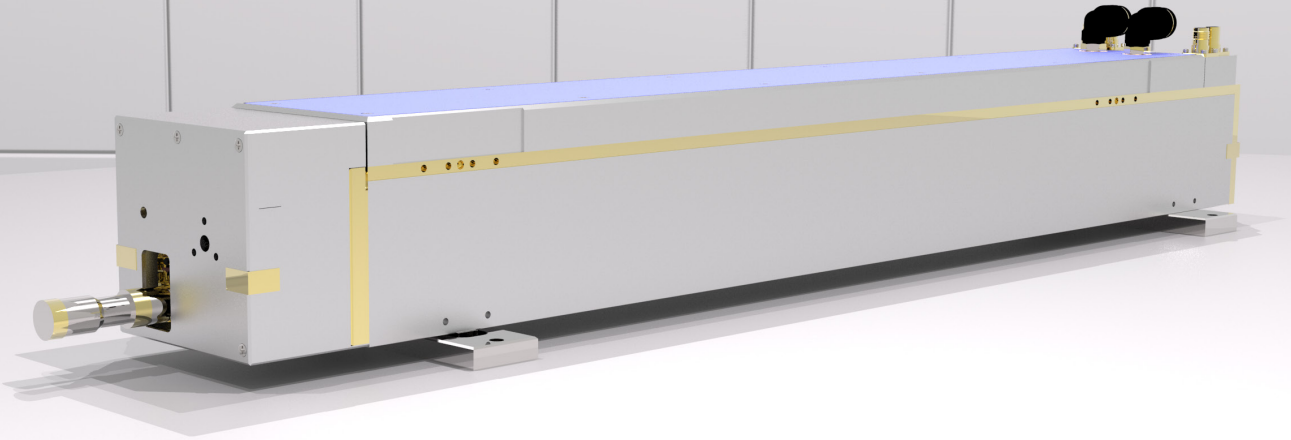


# AL50-G-CO-WC



### Laser Power

Wavelength	5.2-5.8 $\mu\text{m}$
CW Power	1.5 W
Peak Power	1.5 W
Power Stability	$\pm 5\%$

### Pulse Width Modulation Parameters

Duty Cycle	0-100 %
Pulse Repetition Frequency	0-100 kHz

### Dimensions & Weight

Laser Weight	33.8 lbs
Dimensions L x W x H	33.1 x 3.9 x 5.0 inch
RF Driver Weight	11.5 lbs

### Water Cooling

Min Flow Rate	3.8 LPM (1GPM)
Recommended Flow Rate	9.5 LPM (2.5 GPM)
Max Pressure	10bar (150 psi)
Required Chiller Stability	$\pm 0.1^\circ\text{C}$
Storage Temp Range	5-50 $^\circ\text{C}$

### Beam Characteristics

Beam Waist Diameter	2.7mm
Waist Location	Output Coupler
Mode Quality	$M^2 \leq 1.2$
Full Divergence Angle	2.8 mrad
Rise and Fall time	200 $\mu\text{s}$
Polarization	$\geq 100:1$ Linear Vertical

### DC Power Requirements

RF Driver	28 V
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### Heat & Cooling

Heat Dissipation	$\leq 600\text{W}$
Cooling Requirement	Water Cooled
Working Temperature	5 $^\circ\text{C}$ to 40 $^\circ\text{C}$

### Notes

Power Stability calculated in CW at thermal equilibrium

$$\pm \frac{P_{max} - P_{min}}{P_{max} + P_{min}}$$

Beam specifications measured at:  $\frac{1}{e^2}$

Average power may exceed listed value. All specifications are measured at the strongest line and are subject to change without notice. Guarantee for minimum of 20 lines. Specific power at defined lines cannot be guaranteed for standard orders.



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