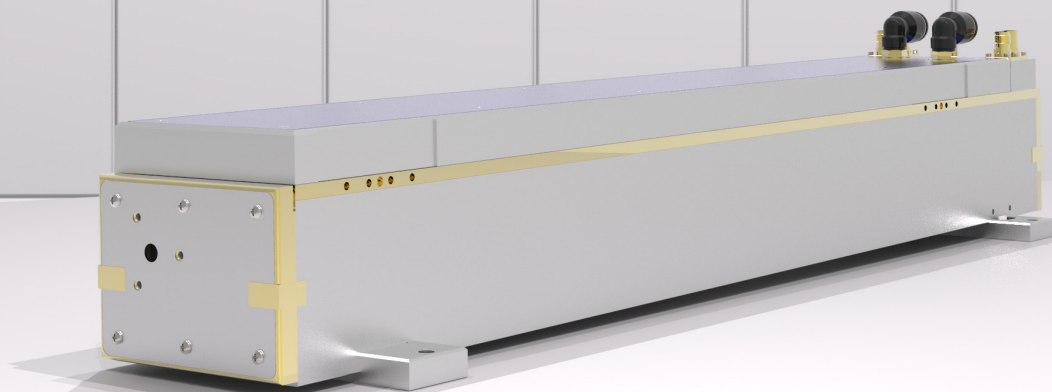


AL50-D-WC



Laser Power

Wavelength	10.6 μ m
CW Power	50 (SP: 25) W
Peak Power	50 (SP: 120) W
Power Stability	$\pm 5 \%$

Beam Characteristics

Beam Waist Diameter	2.4mm
Waist Location	Output Coupler
Mode Quality	$M^2 \leq 1.1$
Full Divergence Angle	5.5 mrad
Rise and Fall time	200 (SP: 100) μ s
Polarization	$\geq 20:1$ Fixed Linear Vertical

Pulse Width Modulation Parameters

Duty Cycle	0-100 (SP: 0-30) %
Pulse Repetition Frequency	0-100 kHz

DC Power Requirements

RF Driver	28 (SP:48) V
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Dimensions & Weight

Laser Weight	33.8 lbs
Dimensions L x W x H	28.9 x 3.9 x 5.0 inch
RF Driver Weight	11.5 lbs

Heat & Cooling

Heat Dissipation	≤ 600 W
Cooling Requirement	Water Cooled
Working Temperature	5°C to 40°C

Water Cooling

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

Notes

Power Stability calculated in CW at thermal equilibrium

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

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

All measurements taken at the strongest line. All are specifications are subject to change without notice.



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