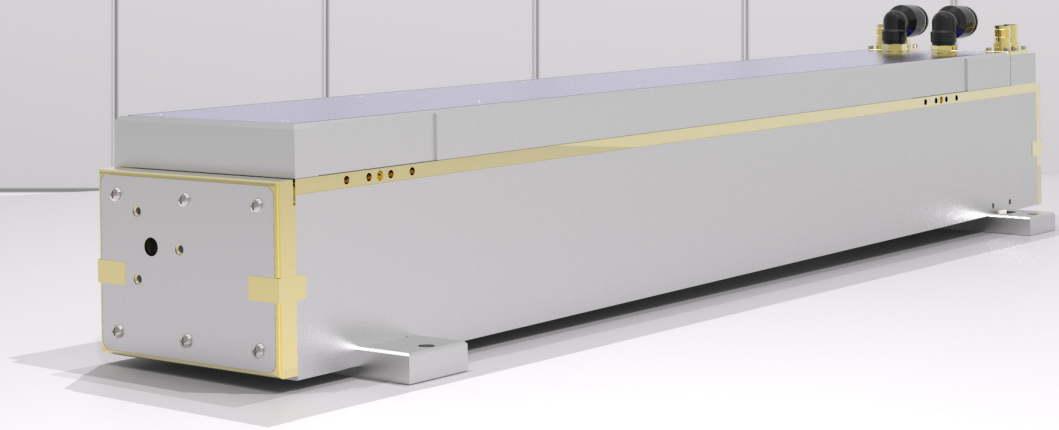


AL50-S-WCCL



Laser Power

Wavelength	10.6 μm
CW Power	50 W
Peak Power	50 W
Power Stability	± 2 %

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	28.8 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	± 0.1 °C
Storage Temp Range	5-50 °C

Beam Characteristics

Beam Waist Diameter	2.4mm
Waist Location	Output Coupler
Mode Quality	M ² ≤ 1.1
Full Divergence Angle	5.5 mrad
Rise and Fall time	200 μs
Polarization	≥20:1 Linear Vertical

DC Power Requirements

RF Driver	28 V
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Heat & Cooling

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



ACCESS LASER
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