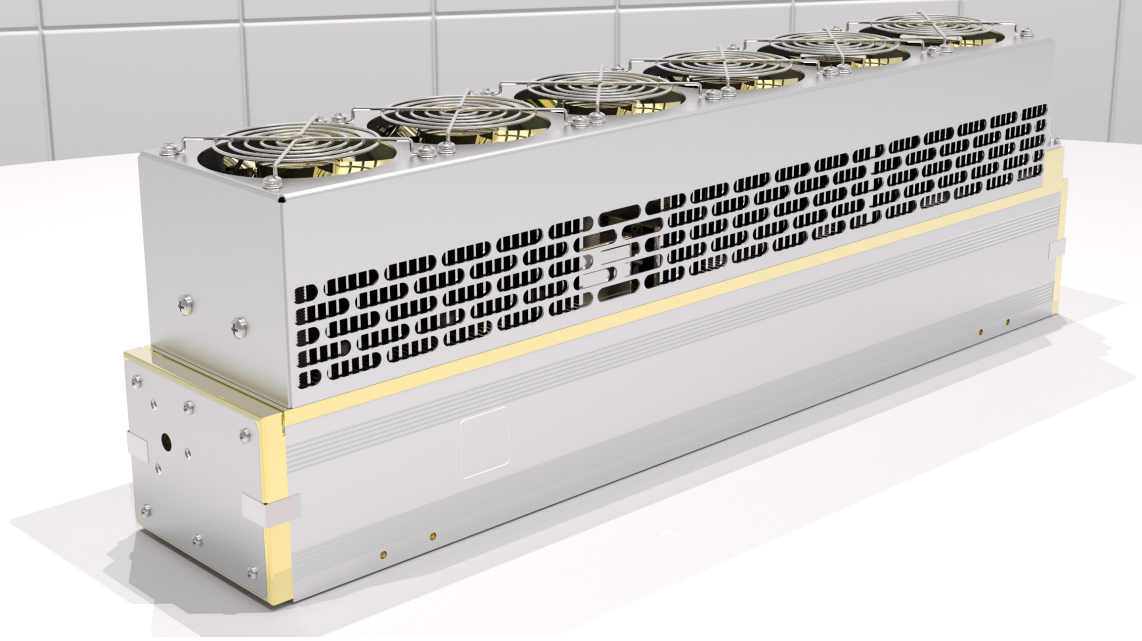
DATA SHEET

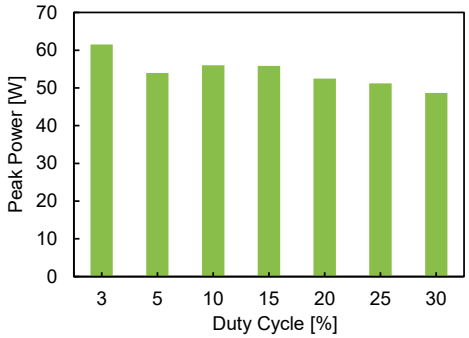
AL20D FC



Laser Power

Wavelength	~ 10.6 µm
CW Power	18 W
Power Stability	± 5 %
Duty Cycle	0 - 100 % (SP*): 0 - 30 %)
Pulse Repetition Frequency	0 - 100 kHz
Rise and Fall Time	≤ 200 µs (SP: 100 µs)
Peak Power	18 W (SP: 45 W)

Typical performance:



Dimensions & Weight

Laser Weight	20.5 lbs
Dimensions L x W x H	21 x 4 x 6.5 in
RF Driver Weight	7.0 lbs

Beam Characteristics

Beam Waist Diameter	2.4 mm
Waist Location	Output Coupler
Mode Quality	$M^2 \leq 1.1$
Full Divergence Angle	5.5 mrad
Polarization	≥ 20:1 Linear Vertical

Heat & Cooling

Heat Dissipation	≤ 400 W
Cooling Requirement	Fan Cooled
Working Temperature	5 - 40 °C (non-condensing)
Storage Temp. Range	5 - 50 °C (non-condensing)

DC Power Requirements

Laser RF Driver (U | I)	28 V (SP: 48 V)| 14 A (SP: 10 A)

Notes

Power Stability calculated by: $\pm \frac{P_{max}-P_{min}}{P_{max}+P_{min}}$

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

**) SP: Super pulse mode. Average or pulsed power may exceed listed value. All specifications are measured at the strongest line and are subject to change without notice. Stability measured after 45 minute warm-up to allow laser head to reach thermal equilibrium.*

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