AL30ST FCCL

Laser Power

Wavelength		~ 10.6 µm
CW Power		30 W
Power Stability		±1%
Duty Cycle		0 - 100 %
Pulse Repetition Frequency		0 - 100 kHz
Rise and Fall Time		200 µs
Peak Power		30 W
Typica	performance:	
40	[]
35		
∑ ³⁰	-	
 ພ 25	-	
Average Power [W]	-	
<u>க</u> 15	-	
je Je	-	
₹ 5	-	
0		
	0 30 60 Time [min]	90 120

Dimensions & Weight

Laser Weight	
Dimensions L x W x H	
RF Driver Weight	

20.5 lbs 23.5 x 4 x 6.5 in 7.0 lbs

Beam Characteristics

WD WD W

411 WW U

p (III)

D) all

> Beam Waist Diameter Waist Location Mode Quality Full Divergence Angle Polarization

2.4 mm **Output Coupler** M² ≤].] 5.5 mrad ≥ 20:1 Linear Vertical

Heat & Cooling

Heat Dissipation **Cooling Requirement** Working Temperature Storage Temp. Range

DC Power Requirements

Laser RF Driver (U | I) Temperature Controller Line Tracker

12 V

Notes

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

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

≤ 600 W Fan Cooled Closed Loop 5 - 40 °C (non-condensing) 5 - 50 °C (non-condensing)

36 V | 16.5 A

12 V

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.

