

## Model AL30 Specifications

Model	AL30	AL30P	AL30D
Wavelength (µm)	10.5-10.7	10.5-10.7	AL30D has features of both AL30 and AL30P when the appropriate DC power supply is used.
CW Power (W)	30	14 (average)	
Peak Power (W)	30	60	<sup>1</sup> Power Stability is based on $\pm (P_{max} - P_{min}) / (2 * P_{max})$ at constant duty cycle after 5 minute warmup at operating conditions.  <sup>2</sup> <u>Air Cooling</u> : Fans are included as standard. 240 CFM <u>Water Cooling</u> : Min Flow Rate: 1.9 lpm (0.5 gpm) Max Pressure: 10 bar (150 psi) Temperature Range: 15-30° C (59-86° F)  <sup>3</sup> Water Cooling Height: 4.2"
Power Stability <sup>1</sup>	±5%	±5%	
Mode Quality (M <sup>2</sup> )	<1.1	<1.1	
Beam Waist Diameter	2.4 mm	2.4mm	
Waist Location	Output Coupler	Output Coupler	
Full Div. Angle	5.5 mrad	5.5 mrad	
Polarization	>100:1 fixed linear horizontal	>100:1 fixed linear horizontal	
Rise Time (µs)	100	100	
Fall Time (µs)	100	100	
Supply Voltage	36VDC 600W Regulated	48V DC 600W Regulated	
Electronic PWM Parameters	Frequency up to 100 kHz, duty cycle 0-100%	Frequency up to 100 kHz, duty cycle 0-30%, pulse length up to 0.4 ms	
Heat Dissipation	< 600W	<600W	
Cooling Requirement <sup>2</sup>	Fan Cooled	Fan Cooled	
Working Temperature	5-40° C	5-40° C	
Laser Weight	19 lbs.	19 lbs.	
RF Driver Weight	7 lbs.	7 lbs.	
Dimensions (LxWxH, inch) <sup>3</sup>	20.8x3.9x6.5	20.8x3.9x6.5	



Laser pictured is air cooled model

**Factory Warranty:** One year for parts and labor due to manufacturing quality, regardless of usage.

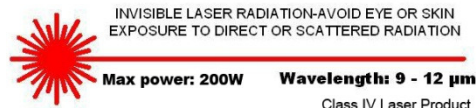
### Options Available

- Water Cooling
- Optimized for 9.3µm or 10.2µm
- Real time power monitoring
- Isotope Gas Fills
- Stabilization to ±1% with Line Tracker

\* Includes RF driver & laser controller

\* Specifications subject to change without notice

\* We strive to satisfy custom requirements. Please contact us if you have other special needs.



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