

Model AL30S Specifications

Model	AL30S	AL30SP	AL30SD
Wavelength (μm)	10.5-10.7	10.5-10.7	AL30SD has features of both AL30S and AL30SP when the appropriate DC power supply is used.
CW Power (W)	30	14 (average)	
Peak Power (W)	30	60	
Power Stability ¹	±2%	±2%	
Mode Quality (M ²)	<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	>20:1 fixed linear vertical	>20:1 fixed linear vertical	
Rise Time (μs)	100	100	
Fall Time (μs)	100	100	¹ Power Stability is based on $\pm (P_{max} - P_{min}) / (2 * P_{max})$ at constant duty cycle after 5 minute warmup at operating conditions. ² Air Cooling: Fans are included as standard. 240 CFM Water Cooling: Min Flow Rate: 1.9 lpm (0.5 gpm) Max Pressure: 10 bar (150 psi) Temperature Range: 15-30° C (59-86° F) ³ Water Cooling Height: 4.2"
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 ²	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) ³	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.

