

# Standard Lasers



Model	L3	L4	L5	L15	AL20	AL30	AL50
Available Technology-Options	Stabilized (-S), Line Tracker (-T), Enhanced Polarization (-L)						
	-	Diffraction Grating (-G), Piezo Cavity Modulation (-Z), Dual Drive (-D), Acousto-Optical			Q-Switching (-Q)		
	-						
<b>Laser Power</b>							
Wavelength	~ 10.6 $\mu$ m						
CW Power	0.4 W	1.0 W	5 W	15 W	20 W	30 W	50 W
Power Stability	$\pm 20\%$	$\pm 15\%$	$\pm 10\%$	$\pm 10\%$	$\pm 5\%$	$\pm 5\%$	$\pm 4\%^{*2}$
Power Stability (-S <sup>*1</sup> )	$\pm 2\%$	$\pm 2\%$	$\pm 2\%^{*3}$	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$	$\pm 2\%^{*3}$
Duty Cycle	0 - 100 %						
Modulation Frequency	0 - 100 kHz						
Rise and Fall Time	200 $\mu$ s						
Peak Power	0.4 W	1.0 W	5.0 W	15 W	20 W	30 W	50 W
<b>Beam Characteristics</b>							
Beam Waist Diameter	2.4 mm						
Waist Location	Output Coupler						
Mode Quality	$M^2 \leq 1.1$						
Full Divergence Angle	5.5 mrad						
Polarization	Random, Linear				Linear Vertical		
<b>Heat &amp; Cooling</b>							
Cooling Options	AC, FC or WC	AC, FC or WC	FC or WC	FC or WC	FC or WC	FC or WC	WC
Heat Dissipation	< 50 W	< 100 W	< 200 W	< 300 W	< 400 W	< 600 W	< 750 W
Working Temperature	5 - 40 °C (non-condensing)						
<b>DC Power Require.</b>							
Laser RF Driver (U   I)	12 V   4 A	12 V   4 A	28 V   7 A	36 V   8.5 A	28V   14 A	36 V   16.5 A	28 V   28 A
<b>Dimensions &amp; Weight</b>							
Laser Weight	2.5 lbs	9.5 lbs	10.0 lbs	15 lbs	20.5 lbs	20.5 lbs	34 lb
Dimensions L x W x H	7.5 x 2.5 x 2 in	12.5 x 2.5 x 2 in	12.5 x 3 x 3 in	20 x 4 x 3 in	21 x 4 x 5 in	23.5 x 4 x 5 in	29 x 4 x 5 in

<sup>\*1</sup> Stabilized Fan Cooled Closed Loop, <sup>\*2</sup> Only as Water Cooled, <sup>\*3</sup> Only as Stabilized Water Cooled Closed Loop (-S-WCCL). Specifications are given without any technology options, custom solutions and further configurations are available. 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 5 minute warm-up.

