

Stabilized Lasers



Model	L3SLT	L4SLT	L5SLT	AL20SLT	AL30SLT	AL50SLT
Technology Feature	Stabilized (-S), Enhanced Polarization (-L), Line Tracker (-T)					
Laser Power						
Wavelength	~ 10.6 μ m					
CW Power	0.4 W	1 W	5 W	20 W	30 W	50 W
Power Stability (-FCCL*)	± 1.5 %	± 1.5 %	-	± 1 %	± 1 %	-
Power Stability (-WCCL**)	± 1 %	± 1 %	± 1 %	± 1 %	± 1 %	± 1 %
Duty Cycle	0 - 100 %					
Modulation Frequency	0 - 100 kHz					
Rise and Fall Time						
Peak Power	0.4 W	1 W	5 W	20 W	30 W	50 W
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	> 50:1 Linear Vertical					
Heat & Cooling						
Cooling Options	Fan Cooled Closed Loop (-FCCL) or Water Cooled Closed Loop (-WCCL)					
Heat Dissipation	≤ 50 W	≤ 50 W	≤ 200 W	≤ 400 W	≤ 600 W	≤ 750 W
Working Temperature	5 - 40 °C (non-condensing)					
DC Power Require.						
Laser RF Driver (U I)	12 V 4 A	12 V 4 A	28 V 7 A	28V 14 A	36 V 16.5 A	28 V 28 A
Dimensions & Weight						
Laser Weight	2.5 lbs	9.5 lbs	10.0 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	21 x 4 x 5 in	23.5 x 4 x 5 in	29 x 4 x 5 in

*1 Fan Cooled Closed Loop. *2 Water Cooled Closed Loop. Further customization and 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 45 minute warm-up to allow laser head to reach thermal equilibrium.

