

Medium Power Grating Tuned CO2 Laser

Model L50G Specifications

Model	L50G	L50GP
Wavelength (µm)	9.2 - 10.7	9.2 - 10.8
No. of Lines	60	65
CW Power (W)	18	8 (average)
Peak Power (W)	18	40
Power Stabilty	±5%	±5%
Mode Quality (M ²)	< 1.2	< 1.2
Beam Waist Diameter	2.4 mm	2.4 mm
Waist Location	Beam Exit	Beam Exit
Full Div. Angle	5.5 mrad	5.5 mrad
Polarization	Horizontal	Horizontal
Rise Time (µs)	200	100
Fall Time (µs)	200	100
Supply Voltage (DC)	28V 1kW	48V 1kW
Electronic PWM Parameters	Any frequency up to 100 kHz, duty cycle 0-100%	Any frequency up to 100 kHz, duty cycle 0- 30%, pulse length to 0.5 ms
Cooling Requirement ¹	Water Cooled	Water Cooled
Working Temperature	5-40° C	5-40°
Dimensions (LxWxH, inch)	32x8x3.8	32x8x3.8



L50GD

L50GD has features of both L50 and L50GP when the appropriate DC power supply is used.

 $^{1}\text{Chiller}$ Water Temperature 10-20° C Stability $\pm 0.1^{\circ}$ C Flow Rate 0.5 GPM

Factory warranty: One year for parts and labor due to manufacturing quality, regardless of laser usage

Options available:

• Real time power sampling

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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