CO2 LASERS \ Air & Water-Cooled

ULR-50

¥ FEATURES

- · Air and water-cooled options
- · Integrated RF supply
- · Temperature warning output
- Temperature cutoff to prevent damage to laser
- · Fault indicator LED
- Low profile mounting plate
- · Excellent power stability
- · Quiet operation
- Ability to retrofit to current 50-watt CO₂ installations
- Manufactured with proven ULS technology
- Class IV configurations available
- RoHS compliant



LASER SPECIFICATIONS^{*} ¥

Rated Power**	50 W
Wavelength	10.6μm or 9.3μm
Power Stability	±5% after 15 minutes of CW operation
M ²	1.3 ± 0.2
Beam Size (Near Field) [†]	4 ± 1mm
Beam Divergence (Full Angle)	5 ± 1 mrad
Polarization	Linear
Pointing Stability	200 μrad
Optical Pulse Rise or Fall Time	120 ± 40 μs
Optical Delay Time	38 ± 10 μs
Optical Modulation	100% up to 5KHz
Modulation Signal Type	0-5 VDC

LASER SPECIFICATIONS*

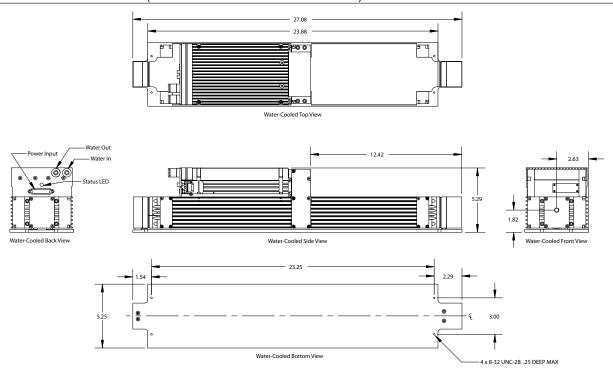
Cooling	Integrated Air/Water
Weight (Air-cooled)	28 lbs (12.7 kg) - Class IV
	21 lbs (9.5 kg) - OEM
Dimensions	see rear panel
Environmental	
Ambient Temperature ^{††}	50-95°F (10-35°C)
Relative Humidity	<90% (non-condensing)
Power Requirements	
DC Input Voltage	48 VDC
RMS Current (CW, with fan)	20 A

^{*} These specifications are subject to change without notice. ** Output power is guaranteed to exceed this level for the duration of ULS warranty regardless of use. †Near field approximately 150mm from output coupler. ††At temperatures below 50°F [10°C] operation may be intermittent and there is a potential for damage to the power supply and optics.

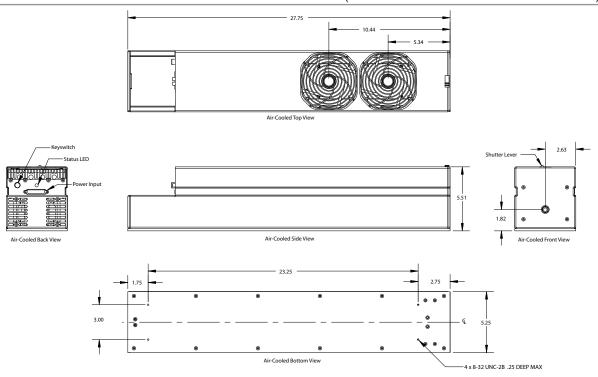
www.co2laser.com



➢ BASIC CONFIGURATION (WATER-COOLED SHOWN BELOW)



➤ INTEGRATED COOLING/CLASS IV CONFIGURATIONS (CLASS IV AIR-COOLED SHOWN BELOW)



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