CO_2 LASERS » Air & Water-Cooled ULCR-100

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 100-watt CO_2 installations
- Manufactured with proven ULS technology
- Class IV configurations available
- RoHS compliant

LASER SPECIFICATIONS*

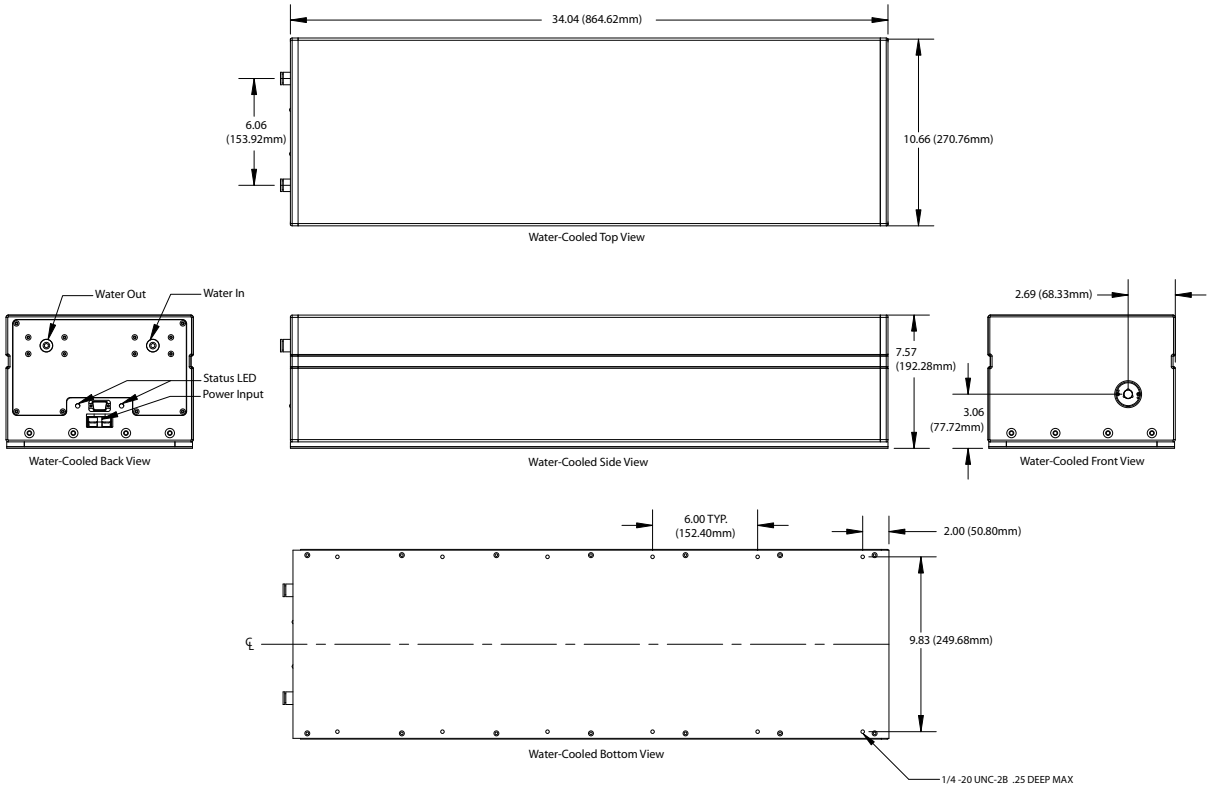
Rated Power**	100 W
Wavelength	10.6μm
Power Stability	±5% after 15 minutes of CW operation
M^2	1.3 ± 0.2
Beam Size (Near Field)†	4 ± 1mm
Beam Divergence (Full Angle)	5 ± 1 mrad
Polarization	Cross-polarized
Pointing Stability	200 μrad
Optical Pulse Rise or Fall Time	120 ± 40 μs
Optical Delay Time	38 ±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

LASER SPECIFICATIONS*

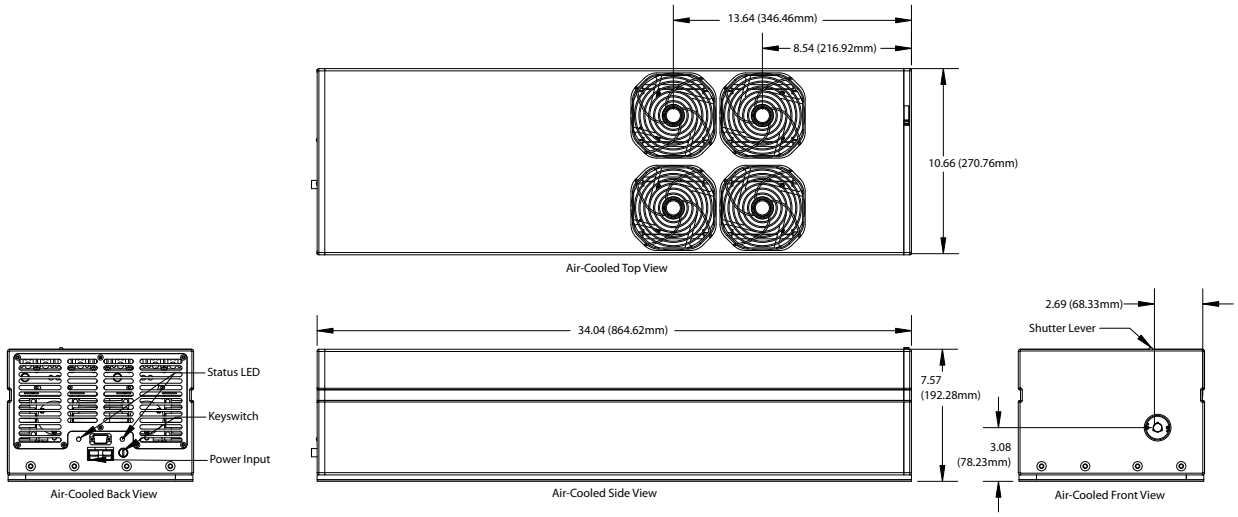
Cooling	Integrated Air/Water
Weight (Air-cooled)	82 lbs (37.1 kg) - Class IV
Dimensions	see rear panel
Environmental	
Ambient Temperature††	50-95°F (10-35°C)
Relative Humidity	<90% (non-condensing)
Power Requirements	
DC Input Voltage	48 VDC
RMS Current (CW, with fan)	36 A

* 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.

INTEGRATED COOLING CONFIGURATION (WATER-COOLED SHOWN BELOW)



CLASS IV CONFIGURATION (AIR-COOLED SHOWN BELOW)



Note: For mounting provisions see Water-Cooled Bottom View above.