

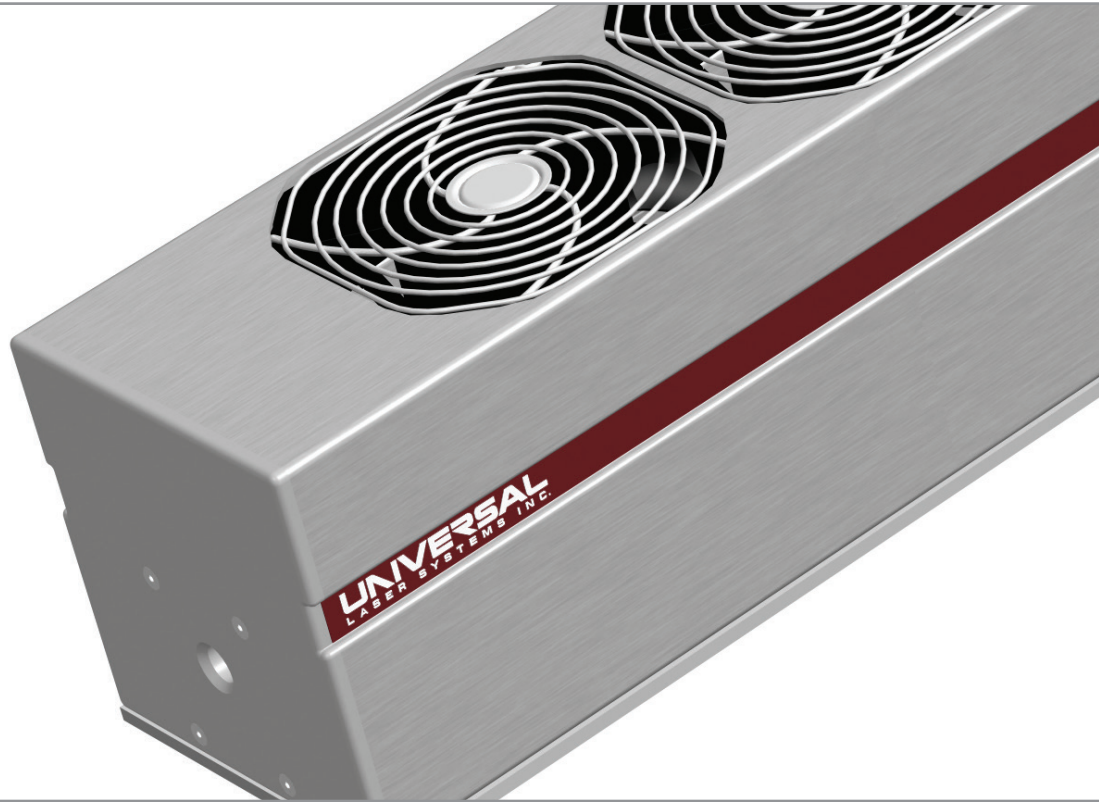
CO₂ LASERS

Air & Water-Cooled

ULR-60

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 60-watt CO₂ installations
- Manufactured with proven ULS technology
- Class IV configurations available
- RoHS compliant



LASER SPECIFICATIONS*

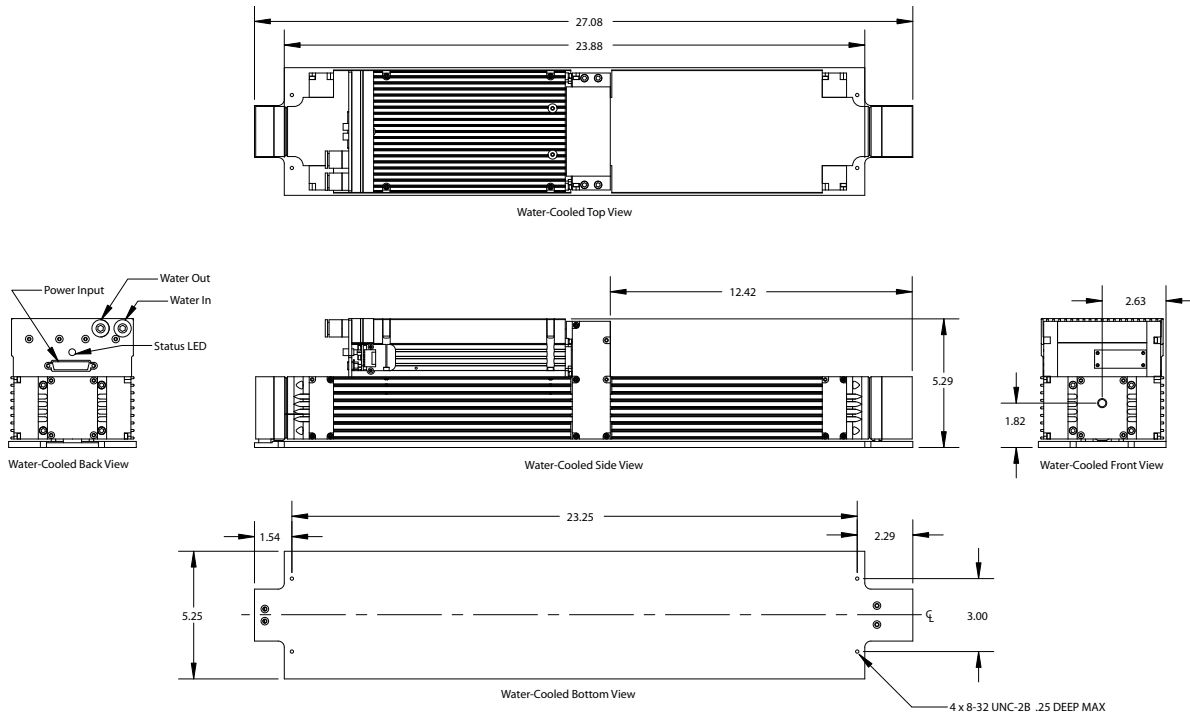
Rated Power**	60 W
Wavelength	10.6 μ m
Power Stability	\pm 5% after 15 minutes of CW operation
M ²	1.3 \pm 0.2
Beam Size (Near Field) [†]	4 \pm 1mm
Beam Divergence (Full Angle)	5 \pm 1 mrad
Polarization	Linear
Pointing Stability	200 μ rad
Optical Pulse Rise or Fall Time	120 \pm 40 μ s
Optical Delay Time	38 \pm 10 μ s
Optical Modulation	100% up to 5KHz
Modulation Signal Type	0-5 VDC

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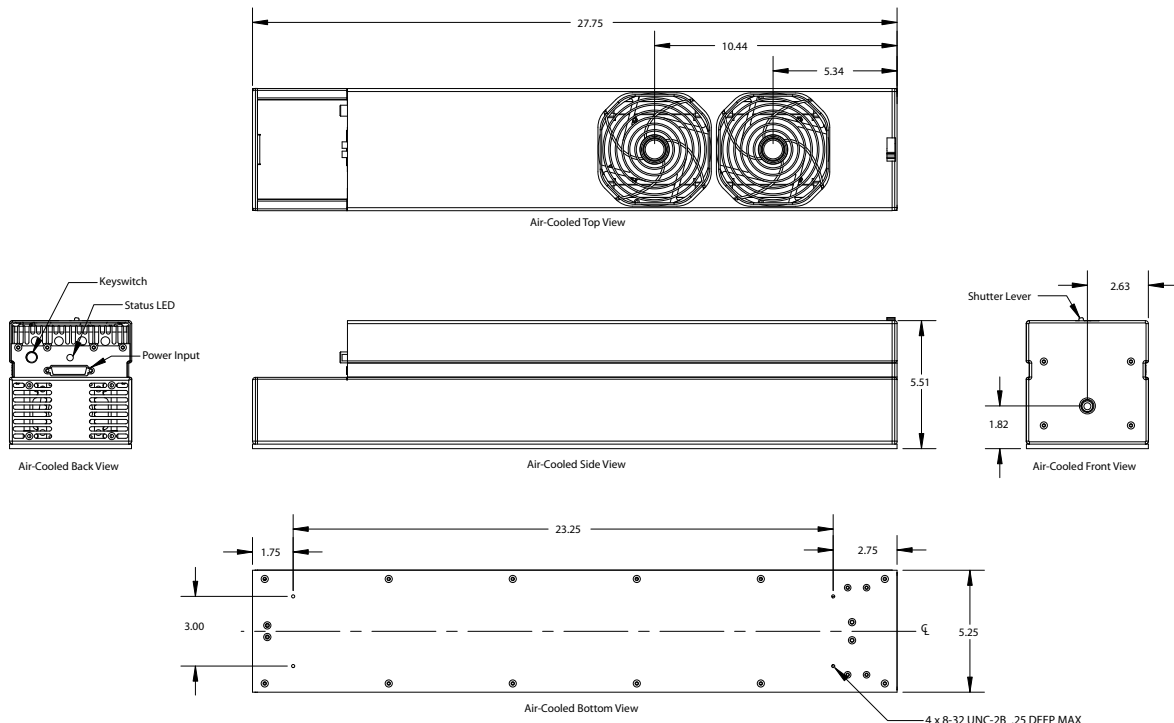
Cooling	Integrated Air/Water
Weight (Air-cooled)	28 lbs (12.7 kg) - Class IV
	21 lbs (9.5 kg) - OEM
Dimensions	see rear panel
<i>Environmental</i>	
Ambient Temperature ^{††}	50-95°F (10-35°C)
Relative Humidity	<90% (non-condensing)
<i>Power Requirements</i>	
DC Input Voltage	48 VDC
RMS Current (CW, with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

≡ BASIC CONFIGURATION (WATER-COOLED SHOWN BELOW)



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



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