



QAOV532 Series 532nm Actively Q-Switched Laser System up to 300µJ

Overview

The QAOV532 series diode-pumped solid-state (DPSS) actively Q-switched AOM (Acousto-Optic Modulation) laser is ideal for applications that require a wavelength of 532nm and single pulse energy levels up to 300uJ. The laser features high peak power, high repetition rate and short pulse duration. The laser is widely used in marking on materials that are hard, such as highly reflective metals (silver and gold), semiconductors (silicon, gallium arsenide and germanium), and rubbers (silicone).



Specifications

Model Number	QAOV532-XP	
Wavelength (nm)	532±1	
Operating mode	Actively Q-switched AOM (Acousto-Optic Modulation)	
Average power (mW)	~5000 @ 25kHz (X=5W)	~8000 @ 25kHz (X=8W)
	Average power (mW) = Single pulse energy (µJ) * Rep. rate (kHz)	
Single pulse energy (µJ)	Up to ~300uJ	
Peak power (W)	Peak Power (W) = Single Pulse Energy (µJ) / Pulse Duration (µs)	
Ave power stability (rms, over 4 hours)	<5% (P=A), <3% (P=E), <2% (P=2), <1% (P=D)	
Pulse duration (ns)	Typically ~15 @25kHz, varies from power and repetition	
Repetition rate (kHz)	1-200	
Beam diameter at aperture (1/e ² , mm)	~1.0	
Beam divergence, full angle (mrad)	<2.0	
Polarization ratio	>100:1	
Warm-up time (minutes)	<10	
Cooled method	Air cooled	
Beam height from base plate (mm)	113	
Operating temperature (°C)	10-35	
Dimensions of laser head (mm)	430(L) x142(W) x144(H) mm ³	
Weight of laser head (kg)	9.5 kg	
Power supply		
AOM Power Supply (Y=AU)	Input voltage	220/110VAC
	Dimensions	483.5(L) x454(W) x147.5(H) mm ³
	Weight	8.3 kg
Expected lifetime (hours)	10,000	
Warranty	10 months	
FDA Compliance	FDA CDRH Title 21 CFR 1040.10/11 Class IV	

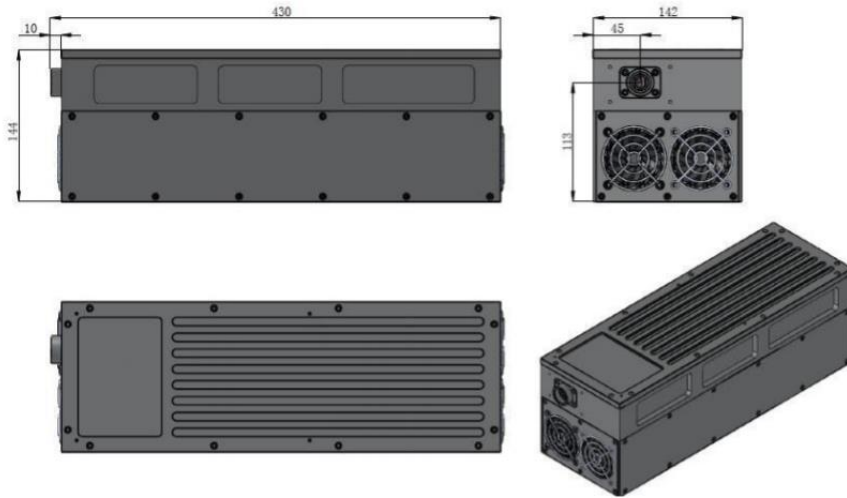
Remarks:

- Specifications of the Q-switched pulsed laser is based on the laser pulsed at the specified repetition rate. If the laser is run at a different repetition rate, the output characteristics may change.

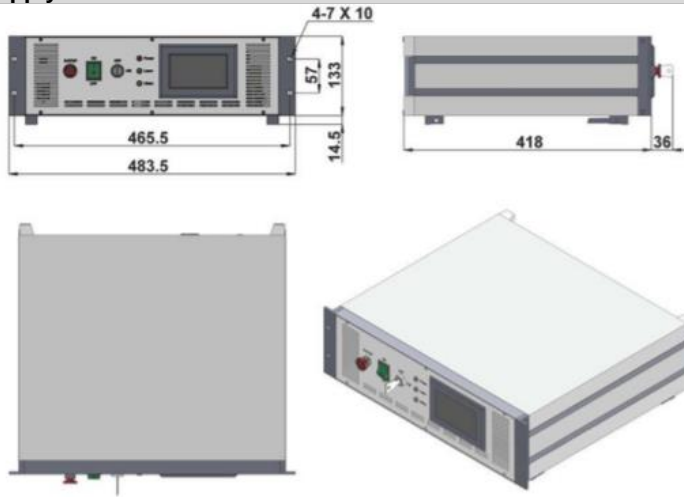


Outline Dimensions (unit: mm)

Laser Head



Power Supply



Note: The above specifications are subject to change without notice.