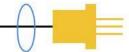


# Lasermate Group, Inc.

### The Friend of Lasers



## QAOS532 Series 532nm Actively Q-Switched Laser System up to 100uJ

#### Overview

The QAOS532 series diode-pumped solid-state (DPSS) actively Q-switched AOM (Acousto-Optic Modulation) laser is ideal for applications that require a wavelength of 532nm with single pulse energy levels up to 100uJ. The laser is constructed with features of high peak power, high repetition rate and short pulse duration. The laser is widely used in material processing, measurement, scientific research, and many other applications.



## **Specifications**

Model Number		QAOS532-XYP			
Wavelength (nm)		532±1			
Operating mode		Actively Q-switched AOM (Acousto-Optic Modulation)			
Average power (mW)		~10 @ 1kHz ( <b>X=10)</b>	~30 @ 1kHz ( <b>X=30</b> )	~50 @ 1kHz ( <b>X=50</b> )	~100 @ 1kHz ( <b>X=100</b> )
		Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz)			
Single pulse energy (μJ)		Up to ~100			
Peak power (W)		Peak Power (W) = Single Pulse Energy (μJ) / Pulse Duration (μs)			
Ave power stability (rms, over 4 hours)		<10% (P=B), <5% (P=A), <3% (P=E)			
Transverse mode		Near TEM <sub>00</sub>			
Pulse duration (ns)		Typically 5-10 @<10kHz, varies from power and repetition.			
Repetition rate (kHz)		0.1-50			
M <sup>2</sup> factor		<1.5			
Beam diameter at aperture (1/e², mm)		~0.3			
Beam divergence, full angle (mrad)		<5.0			
Polarization ratio		>100:1 Vertical ±5 degree			
Warm-up time (minutes)		<10			
Beam height from base plate (mm)		25			
Operating temperature (°C)		10-35			
Dimensions of laser head (mm)		211(L) x60(W) ×48(H) mm <sup>3</sup>			
Weight of laser head (kg)		1.05 kg			
Power supply		1			
AOM Power Supply <b>(Y=AD)</b>	Input voltage	90-264VAC			
	Dimensions	270(L) ×214(W) ×99(H) mm <sup>3</sup>			
	Weight	3.55 kg			
Expected lifetime (hours)		10,000			
Warranty		10 months			
FDA Compliance		FDA CDRH Title 21 CFR1040.10/11 Class IV			

#### Remarks:

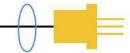
- The laser head needs to be used on a heat sink with good heat dissipation.
- Specifications of the Q-switched pulsed laser is based on the laser pulsed at the specified repetition rate. If the laser is run at a different repetition rate, the output characteristics may change.

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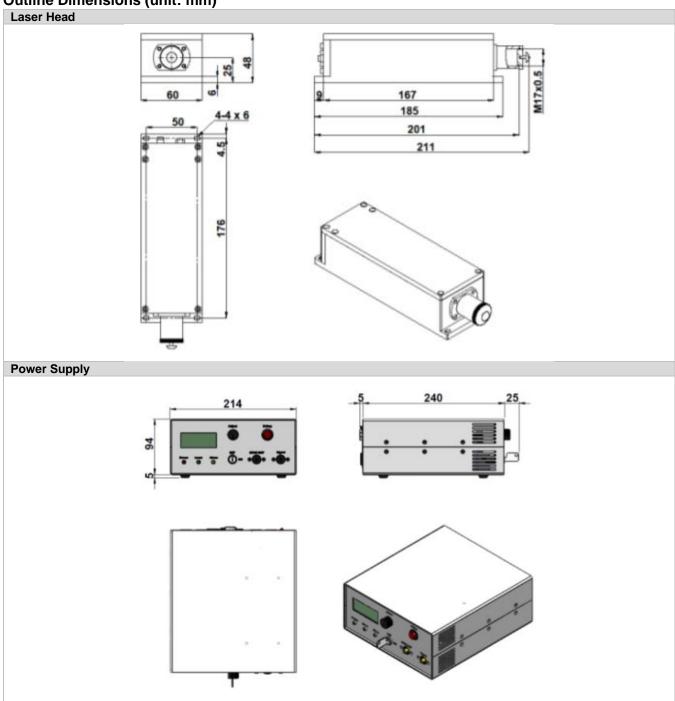


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Note: The above specifications are subject to change without notice.

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