



QAOC355 Series 355nm Actively Q-Switched Laser System up to 5000mW

Overview

The QAOC355 series diode-pumped solid-state (DPSS) actively Q-switched AOM (Acousto-Optic Modulation) UV laser is ideal for applications that require a wavelength of 355nm with average power up to 5000mW. The laser features high peak power, high repetition rate and short pulse duration. The laser is widely used in scientific research, biology, instrumentation, 3D marking, laser marking, subsurface engraving, and many other applications.

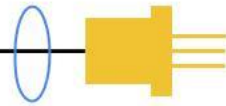


Specifications

Model Number	QAOC355-XYP-W	
Wavelength (nm)	355±1	
Operating mode	Actively Q-switched AOM (Acousto-Optic Modulation)	
Average power (mW)	~5000@30kHz (X=5W)	
Single pulse energy (µJ)	Single pulse energy (µJ) = Average power (mW) / Rep. rate (kHz)	
Peak power (W)	Peak Power (W) = Single Pulse Energy (µJ) / Pulse Duration (µs)	
Ave power stability (rms, over 4 hours)	<5% (P=A)	
Pulse duration (ns)	Typically ~15 @30kHz	
Repetition rate (kHz)	10-100	
Beam diameter at aperture (1/e ² , mm)	<1.3	
Beam divergence, full angle (mrad)	<2.0	
Polarization ratio and Direction	>100:1 Horizontal	
Warm-up time (minutes)	<10	
Cooled method	Water cooled	
Beam height from base plate (mm)	76.2	
Operating temperature (°C)	15-30	
Dimensions of laser head (mm)	359(L) x170.6(W) x94(H) mm ³	
Weight of laser head (kg)	8.5 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
Optional Water chiller	No (W=blank), Yes (W=C)	
Dimensions of water chiller (mm)	580(L) x290(W) x470(H) mm ³	
Weight of water chiller (kg)	23 kg	
Expected lifetime (hours)	5,000	
Warranty	10 months	
FDA Compliance	FDA CDRH Title 21 CFR 1040.10/11 Class IV	

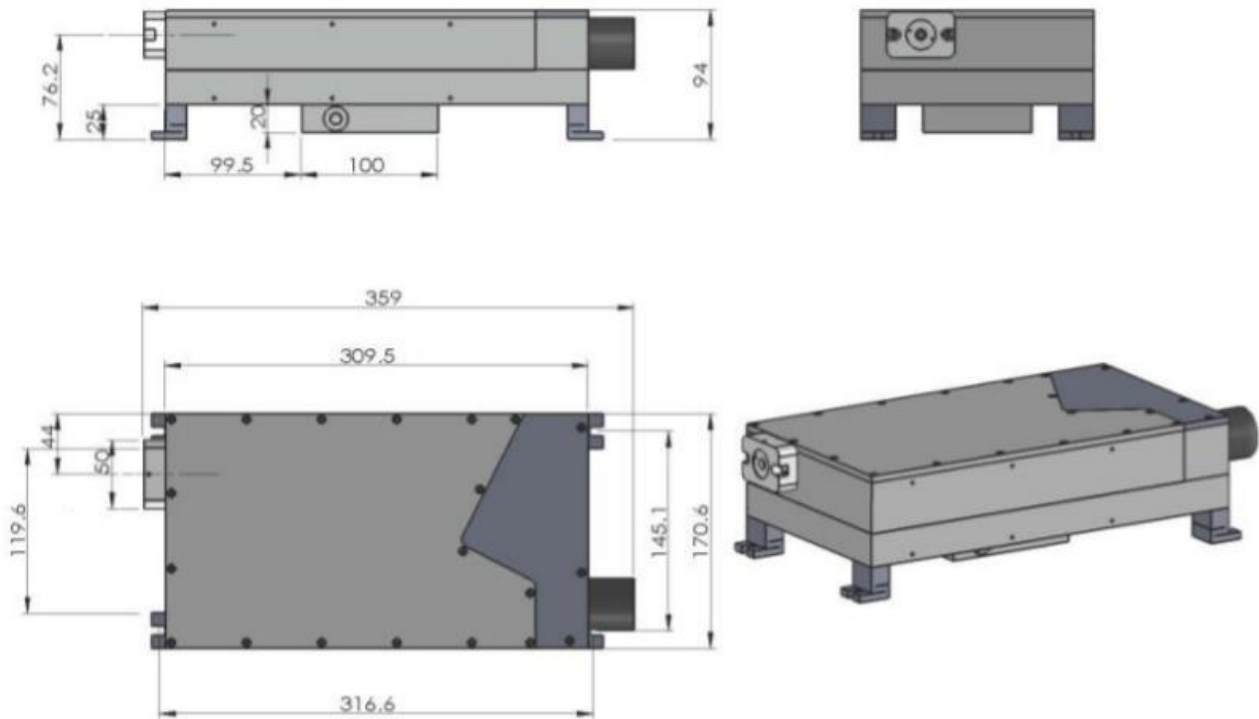
Remarks:

- 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.
- Specifications are subject to change without notice.

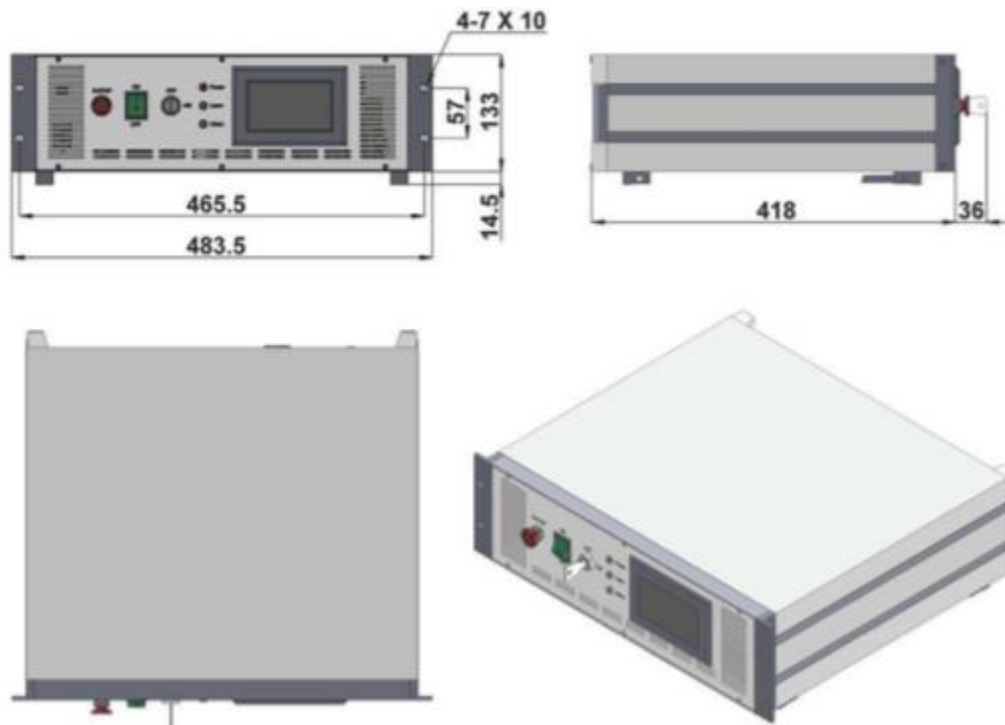


Outline Dimensions (unit: mm)

Laser Head



Power Supply



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