



AO-355W/5W/160uJ/1mJ



LD PUMPED ALL-SOLID-STATE AOM Q-SWITCHED LASER

All solid state AOM Q-switched laser at 355 nm has the features of high peak power, high repetition rate, and short pulse duration, which is used in scientific research, biology, instrumentation, and so on.

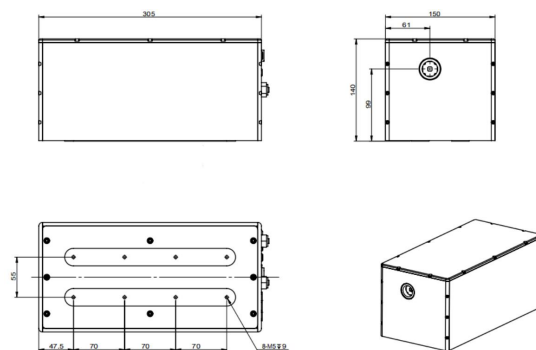


SPECIFICATIONS

Wavelength (nm)	355±1	
Operating mode	Acousto-Optic Q-switched	
Average power (W)	5@5kHz	5@30kHz
	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)	
Single pulse energy (μJ)	>1000@5kHz	>160@30kHz
Rep. Rate ¹	1-10kHz	20-200kHz
Pulse duration (ns) ²	~15 @5kHz	~15 @30kHz
Peak power (kW)	~66 @5kHz	~10 @30kHz
Power stability (rms, 4 hours ± 3°C)	<2%, <1%	
Transverse mode	TEM ₀₀	
Beam divergence, full angle (mrad)	<3.5	
Beam diameter at the aperture (1/e ² , mm)	~0.8	
M ²	<1.2	
Polarization ratio	>100:1 Horizontal	
Beam height from base plate (mm)	99	60
Warm-up time (minutes)	<10	
Cooled method	Water cooled	
Operating temperature (°C)	10-35	
Operating voltage (VDC)	24V/20.9A (AO-355W-I)	12V/25A (AO-355W-II)
Expected lifetime (hours)	>10000	

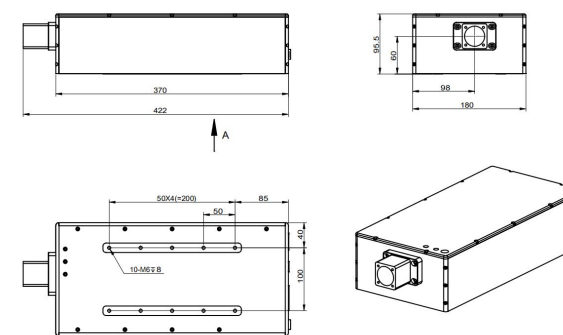


LASER HEAD (Driver Integrated) (AO-355W-I)

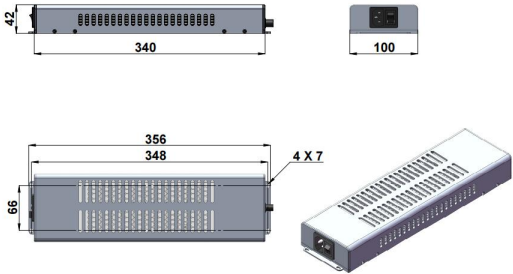
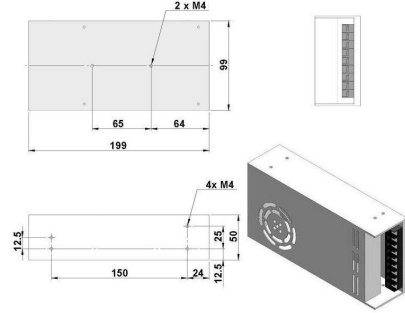
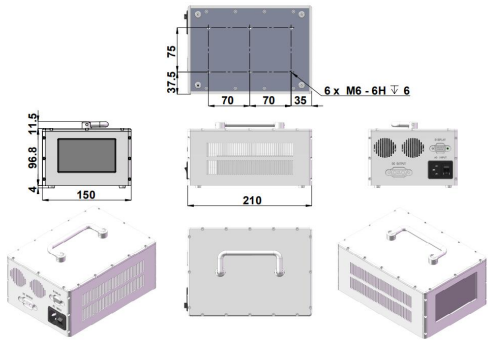
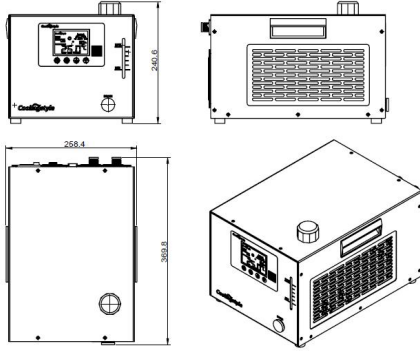


305(L) × 150 (W) × 140 (H) mm³, 10.56 kg

LASER HEAD (Driver Integrated) (AO-355W-II)



422 (L) × 180 (W) × 95.5 (H) mm³, 9.8 kg

POWER SUPPLY PSU-24 (100-240VAC) optional (AO-355W-I)  DC24V 20.9A; 356(L) × 100 (W) × 42 (H) mm³, 2.2kg	POWER SUPPLY PSU-12 (100-240VAC) optional (AO-355W-II)  199 (L) × 99 (W) × 50 (H) mm³, 0.9 kg
POWER SUPPLY PSU-12/24-P³ (100-240VAC) optional  210 (L) × 150 (W) × 112.3 (H) mm³, 2.75 kg	WATER CHILLER (WCH-580)  369.8 (L) × 258.4 (W) × 240.6 (H) mm³, 10.5 kg

1 Other rep.rate range available on request.

2 Pulse width not tunable, the value varies with different frequency.

3 Parameters can be adjusted.(on/off, Rep. Rate, etc.)