

AO-355A/1W/3W/5W



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, 3D marking, laser marking, sub-surface engraving and so on.

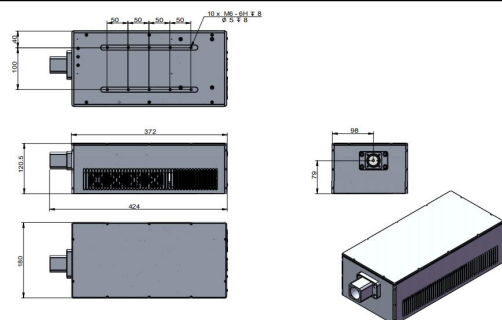


SPECIFICATIONS

Wavelength (nm)	355±1			
Operating mode	Actively			
Average power (W)	1@1kHz	3@5kHz	3@30kHz	5@30kHz
Single pulse energy (μJ)	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)			
Rep. rate ¹	1Hz-10kHz	>600@5kHz	>100@30kHz	>160@30kHz
Pulse width (ns) ²	~12@1kHz	~15@5kHz	~12@30kHz	~15@30kHz
Peak power (kW)	~80 @1kHz	~40@5kHz	~10 @30kHz	
Power stability (rms, 4 hours ± 3°C)	<2%, <1%			
Transverse mode	TEM ₀₀			
Beam Circularity (%)	>90			
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)	79			
Warm-up time (minutes)	<10			
Cooling method	Air cooled			
Operating temperature (°C) ³	10-35			
Operating voltage (VDC)	12V/25A			
Expected lifetime (hours)	>10000			

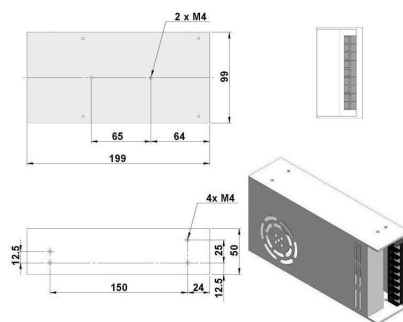


LASER HEAD (Driver Integrated)



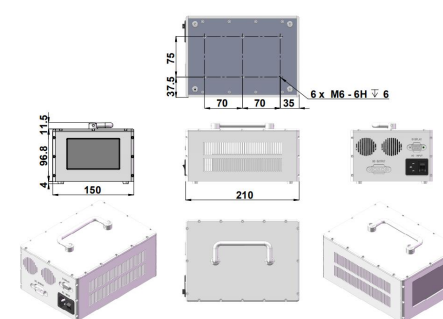
424 (L) × 180 (W) × 120.5 (H) mm³, 9.5 kg

POWER SUPPLY PSU-12 (100-240VAC) optional



199 (L) × 99 (W) × 50 (H) mm³, 0.9 kg

POWER SUPPLY PSU-12-P⁴ (100-240VAC) optional



210 (L) × 150 (W) × 112.3 (H) mm³, 2.75 kg

1 Other rep.rate range available on request.

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

3 Robust environmental adaptability with customizable wide-temperature.

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

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