

AO-532W-LP/20W-30W/2mJ-3mJ



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

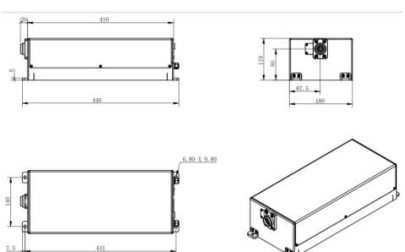
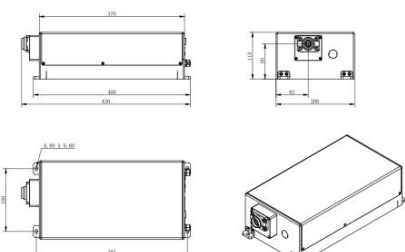
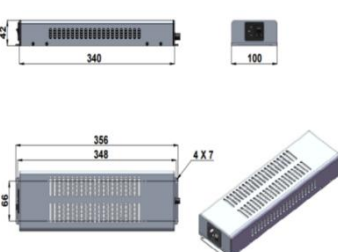
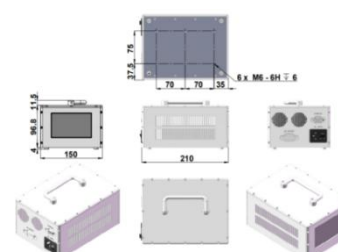
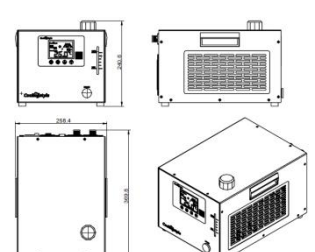
All solid state AOM Q-switched laser at 532 nm has the features of high peak power, high repetition rate, and long pulse duration, which is used in superhard material processing and diamond cutting and so on.



SPECIFICATIONS

Wavelength (nm)	532±1		
Operating mode	Actively		
Average power (W)	20@10kHz	30@10kHz	
	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)		
Single pulse energy (mJ)	2@10kHz	3@10kHz	
Rep. rate ¹	6-20kHz		
Pulse duration (ns) ²	~100@10kHz	~30@10kHz	~65@10kHz
Peak power (kW)	~20@10kHz	~100@10kHz	~50@10kHz
Power stability (rms, 4 hours ± 3°C)	<2%, <1%		
Transverse mode	TEM ₀₀		
Beam Circularity (%)	>90		
Beam divergence, full angle (mrad)	<3		
Beam diameter at the aperture (1/e ² , mm)	~1		
M ²	<1.2		
Polarization ratio	>100:1 Vertical		
Beam height from base plate (mm)	90		
Warm-up time (minutes)	<10		
Cooled method	Water cooled		
Operating temperature (°C)	10-35		
Operating voltage (VDC)	24V/20.9A	36V/13.9A	
Expected lifetime (hours)	>10000		



LASER HEAD (Driver Integrated) (AO-532W-LP-20W)	LASER HEAD (Driver Integrated) (AO-532W-LP-30W)	POWER SUPPLY PSU-24/36 (100-240VAC) optional	POWER SUPPLY PSU-24/36-P ³ (100-240VAC) optional	WATER CHILLER (WCH-580)
 446 (L) × 180 (W) × 119 (H) mm³, 12.1kg	 430 (L) × 200 (W) × 119 (H) mm³, 12.1kg	 356(L) × 100 (W) × 42 (H) mm³, 2.2kg	 210 (L) × 150 (W) × 112.3 (H) mm³, 2.75 kg	 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.)

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