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



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

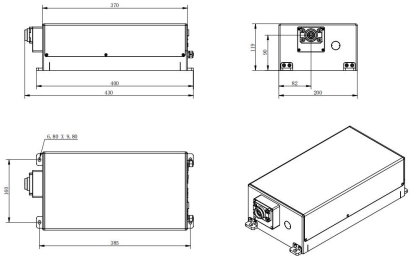
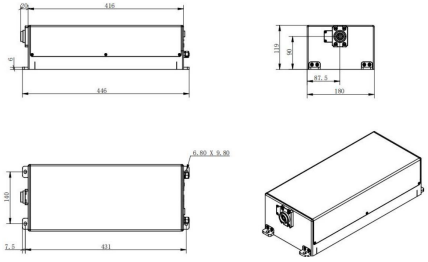
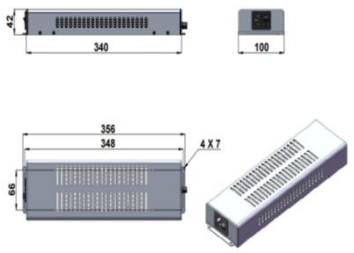
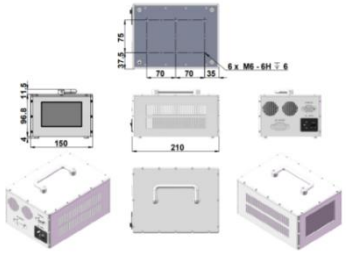
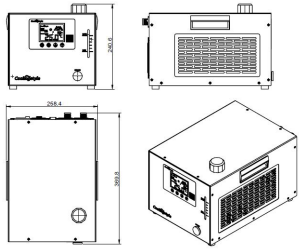
All solid state AOM Q-switched laser at 532 nm has the features of high peak power, high repetition rate, and long pulse duration, which is used in superhard material processing and diamond cutting and so on.

SPECIFICATIONS

Wavelength (nm)	532±1	
Operating mode	Actively	
Average power (W)	30@10kHz	
	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)	
Single pulse energy (mJ)	3@10kHz	
Rep. rate[1]	6-20kHz	
Pulse duration (ns)[2]	~30@10kHz (AO-532W-LP-I)	~65@10kHz (AO-532W-LP-II)
Peak power (kW)	~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 (℃)	10-35	
Operating voltage (VDC)	36V/13.9A	
Expected lifetime (hours)	>10000	





LASER HEAD (Driver Integrated) (AO-532W-LP-I)	LASER HEAD (Driver Integrated) (AO-532W-LP-II)	POWER SUPPLY PSU-24/36 (100-240VAC) optional	POWER SUPPLY PSU-24/36-P[3] (100-240VAC) optional	WATER CHILLER (WCH-580)
				
430 (L) ×200 (W) ×119 (H) mm³,12.5kg	**446 (L) ×180 (W) ×119 (H) mm³,12.5kg**	**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.**446 (L) ×180 (W) ×119 (H) mm³,12.5kg**

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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