



AO-532W 8W/10W/20W/40W/60W/80W

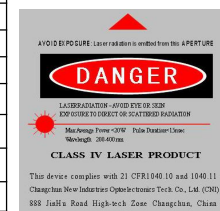


LD PUMPED ALL-SOLID-STATE AOM Q-SWITCHED LASER

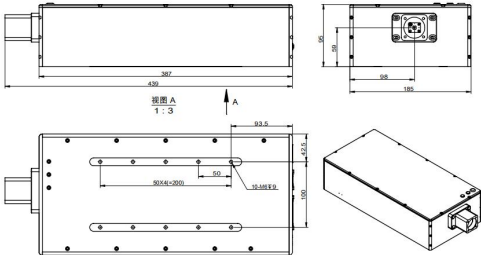
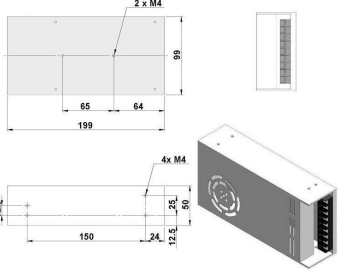
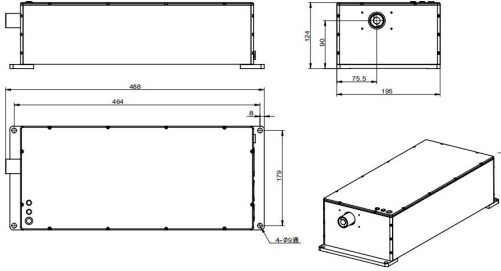
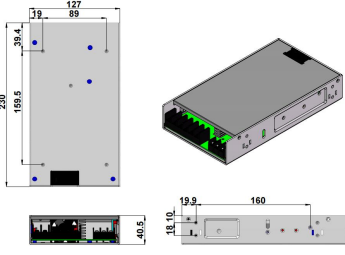
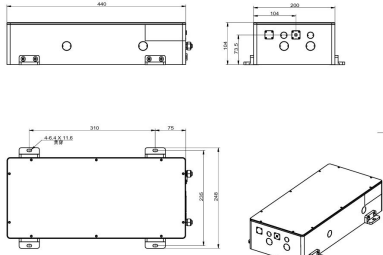
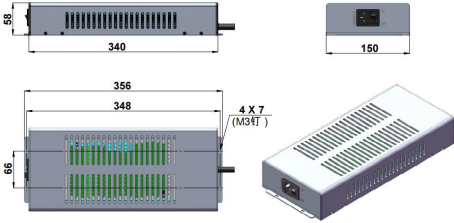
All solid state AOM Q-switched laser at 532 nm has the features of high peak power, high repetition rate, and short pulse duration, which is in marking on materials that are hard, such as highly reflective metals: silver and gold; semiconductors: including silicon, gallium arsenide and germanium, and rubbers such as silicone.



SPECIFICATIONS						
Wavelength (nm)	532±1					
Operating mode	Acousto-Optic Q-switched					
Average power (W)	8W@30kHz	10W@30kHz	20W@50kHz	40W@60kHz	60W@100kHz	80W@100kHz
	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)					
Single pulse energy (μJ)	>300μJ @30kHz	>400μJ @50kHz		>600μJ @60kHz	>600μJ @100kHz	>800μJ @100kHz
Rep. rate (kHz)	20~200	40~150		50~200	100~400	
Pulse width (ns)	~12 @30kHz	~10 @50kHz		~13 @60kHz	~15 @100kHz	~18@100kHz
Transverse mode	TEM ₀₀					
Beam Circularity (%)	>90					
Beam quality (M ²)	<1.2					
Beam divergence, full angle (mrad)	<3.5					
Beam diameter at the aperture (1/e ² , mm)	~1					
Polarization ratio	>100:1, Vertical					
Beam height from base plate (mm)	60		59	90	73.5	
Warm-up time (minutes)	<10					
Cooling method	Water Cooled					
Environment temperature (℃)	10~35					
Supply Voltage	DC12V/25A /DC24V 13A			DC30V/18.6A	DC36V/13.8A	



AO-532W-8W/10W <i>Integrated electronics</i>	Power supply 100-240VAC	Water Chiller (WCH-580)
422 (L) × 180 (W) × 95.5 (H) mm³, 9.8 kg	DC12V 25A ;199 (L) × 99 (W) × 50 (H) mm³, 0.9 kg	369.8 (L) × 258.4(W) × 240.6 (H) mm³, 10.5 kg

AO-532W-20W <i>Integrated electronics</i>  439 (L) × 185 (W) × 95 (H) mm³, 9.8 kg	Power supply 100-240VAC  DC 24V 13A ; 199 (L) × 99 (W) × 50 (H) mm³, 0.9 kg	Water Chiller (WCH-580)  369.8 (L) × 258.4(W) × 240.6 (H) mm³, 10.5 kg
AO-532W-40W <i>Integrated electronics</i>  488 (L) × 195 (W) × 124 (H) mm³, 16.4 kg	Power supply 100-240VAC  DC30V 18.6A ; 230(L) × 127 (W) × 40.5 (H) mm³, 1kg	Water Chiller (WCH-580)  369.8 (L) × 258.4(W) × 240.6 (H) mm³, 10.5 kg
AO-532W-60W/80W <i>Integrated electronics</i>  440 (L) × 248 (W) × 104 (H) mm³, 17 kg	Power supply 100-240VAC  DC36V 13.8A ; 232(L) × 81 (W) × 31 (H) mm³, 1.1kg	Water Chiller (5U-1) Ambient Temperature ≤ 27℃  627 (L) × 426 (W) × 237 (H) mm³, 28 kg