

AO-532W-LM/8W/10W/20W/40W/60W/80W/100W



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 used 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.

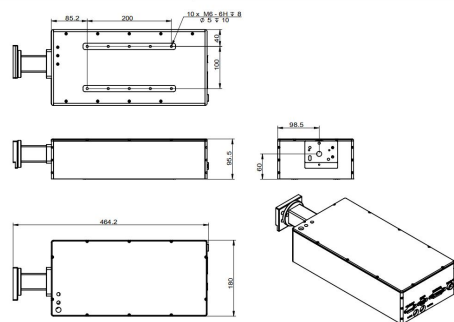


SPECIFICATIONS

Wavelength (nm)	532±1				
Operating mode	Actively				
Average power (W)	8@30kHz	10@30kHz	20@50kHz	40@60kHz	60/80/100@100kHz
	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)				
Single pulse energy (μJ)	>260 @30kHz		>400 @50kHz	>600 @60kHz	>600@100kHz
Rep. rate ¹	20-200kHz		50-200kHz	50-200kHz	100-400kHz
Pulse duration (ns) ²	~12 @30kHz		~12 @50kHz	~13 @60kHz	<20 @100kHz
Peak power (kW)	~20 @30kHz		~30 @50kHz	~50 @60kHz	>30 @100kHz
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	~8				
M ²	<1.2				
Polarization ratio	>100:1 Vertical				
Beam height from base plate (mm)	60		59.5	90	73.5
Warm-up time (minutes)	<10				
Cooling method	Water cooled				
Environment temperature (°C)	10-35				
Operating voltage (VDC)	12V/25A (AO-532W-I)		24V/13A (AO-532W-II)	36V/13.9A (AO-532W-III)	36V/28A (AO-532W-IV)
Expected lifetime (hours)	>10000				

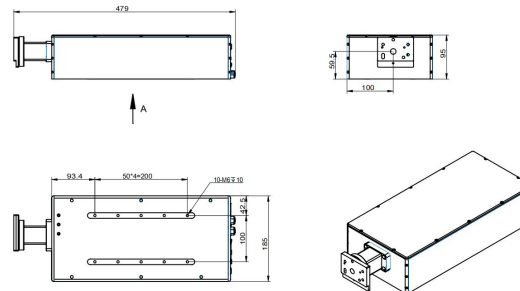


LASER HEAD (Driver Integrated)
(AO-532W-I)



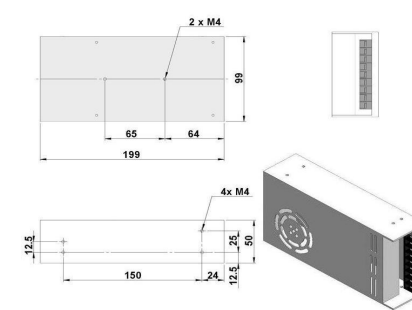
464.2 (L) × 180 (W) × 95.5 (H) mm³, 9.8 kg

LASER HEAD (Driver Integrated)
(AO-532W-II)

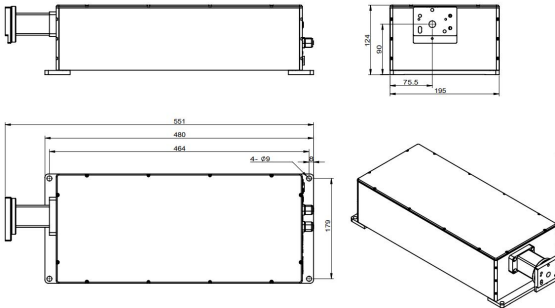
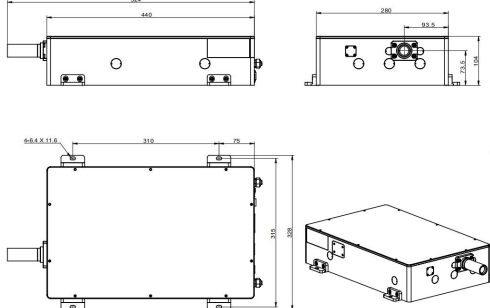
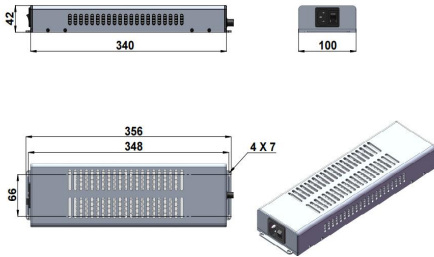
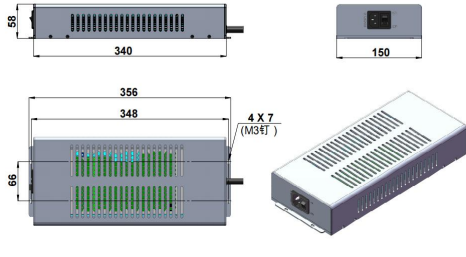
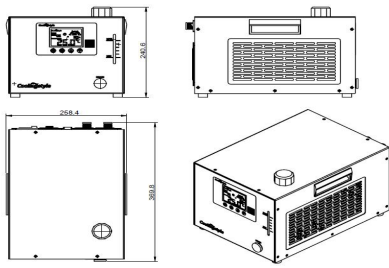
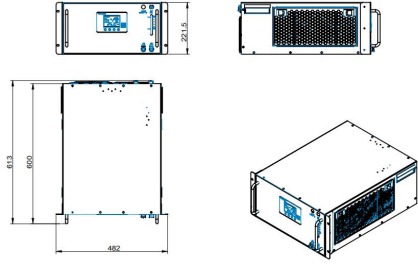


479 (L) × 185 (W) × 95 (H) mm³, 9.8 kg

POWER SUPPLY (100-240VAC)
(AO-532W-I/II)



199 (L) × 99 (W) × 50 (H) mm³, 0.9 kg

LASER HEAD (Driver Integrated) (AO-532W-III)  551(L) × 195 (W) × 124 (H) mm³, 16.4 kg	LASER HEAD (Driver Integrated) (AO-532W-IV)  524 (L) × 328 (W) × 104 (H) mm³, 18 kg
POWER SUPPLY (100-240VAC) (AO-532W-III)  356 (L) × 100 (W) × 42 (H) mm³, 2.2 kg	POWER SUPPLY (100-240VAC) (AO-532W-IV)  340(L) × 150 (W) × 58 (H) mm³, 2.3kg
WATER CHILLER (WCH-580) (AO-532W-I/II/III)  369.8 (L) × 258.4(W) × 240.6 (H) mm³, 10.5 kg	WATER CHILLER (5U03) (AO-532W-IV)  613(L) × 482 (W) × 221.5(H) mm³, 28 kg

1 Other rep.rate range available on request.

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

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