

AO-532W-HE/20W/2mJ



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

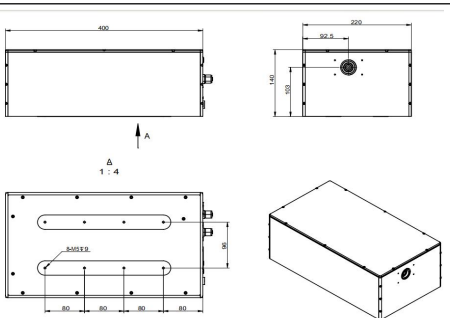
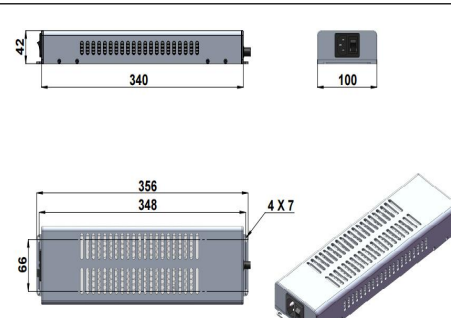
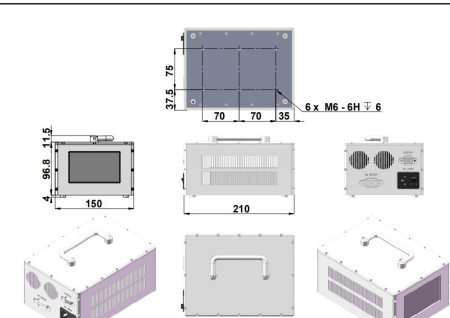
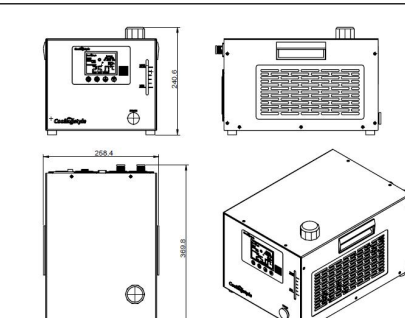
All solid state AOM Q-switched laser at 532 nm has the features of high peak power, high repetition rate, and short pulse duration, which is used in superhard material processing and diamond cutting and so on.



SPECIFICATIONS

Wavelength (nm)	532±1
Operating mode	Actively
Average power (W)	20@10kHz Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)
Single pulse energy (mJ)	2@10kHz
Rep. rate ¹	7-20kHz
Pulse duration (ns) ²	~18@10kHz
Peak power (kW)	~110@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)	103
Warm-up time (minutes)	<10
Cooled method	Water cooled
Operating temperature (°C)	10-35
Operating voltage (VDC)	24V/20.9A
Expected lifetime (hours)	>10000



LASER HEAD (Driver Integrated)	POWER SUPPLY PSU-24 (100-240VAC) optional	POWER SUPPLY PSU-24-P ³ (100-240VAC) optional	WATER CHILLER(WCH-580)
 400 (L) × 220 (W) × 140 (H) mm³, 17kg	 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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