

AO-532W-HE 20W



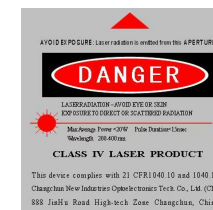
LD PUMPED ALL-SOLID-STATE  
AOM Q-SWITCHED LASER at 532NM

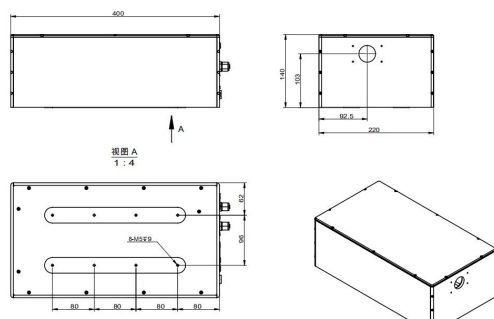
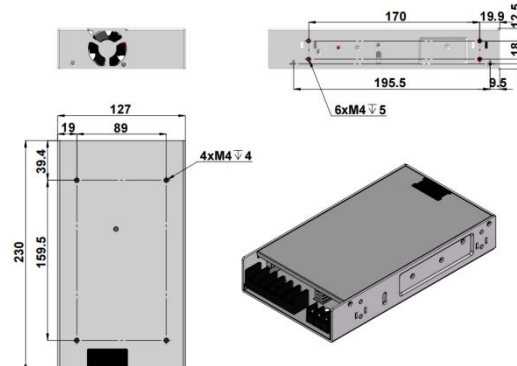
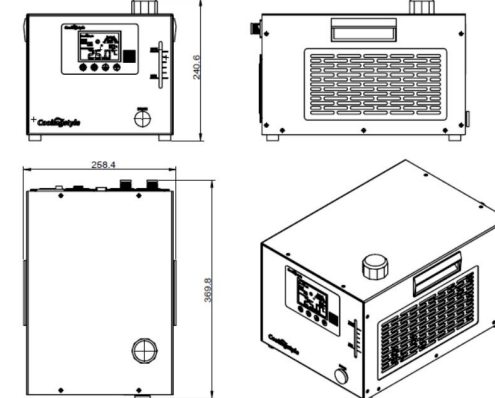
All solid state AOM Q-switched laser at 532 nm has the features of high peak power, high repetition rate, and short pulse duration, which is used in superhard material processing and diamond cutting and so on.



SPECIFICATIONS

Wavelength (nm)	532±1
Operating mode	Acousto-Optic Q-switched
Average power (W)	20W@10kHz Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)
Single pulse energy (μJ)	2000@10kHz
Rep. rate (kHz)	7~100
Pulse width (ns)	~15@10kHz
Ave power stability (over 4 hours)	<3%, <1%
Transverse mode	TEM <sub>00</sub>
Beam Circularity (%)	>90
M <sup>2</sup> factor	<1.2
Beam divergence, full angle (mrad)	<3
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	~1
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
Supply Voltage	DC 15V/33.4A



AO-532W-HE <i>Integrated electronics</i>	PSU-15 ( Power supply 100-240VAC )	Water Chiller (WCH-580)
 <p>400 (L) × 220 (W) × 140 (H) mm<sup>3</sup>, 17kg</p>	 <p>DC15V 33.4A; 230(L) × 127(W) × 40.5(H) mm<sup>3</sup>, 1.3kg</p>	 <p>369.8 (L) × 258.4(W) × 240.6 (H) mm<sup>3</sup>, 10.5 kg</p>