

AO-532B/1μJ~1mJ/1~3W



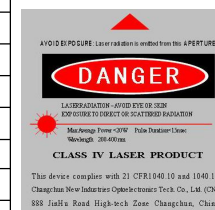
LD PUMPED ALL-SOLID-STATE  
AOM Q-SWITCHED LASER

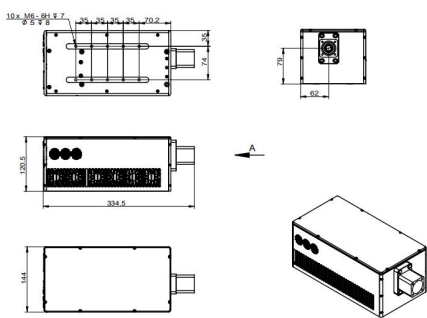
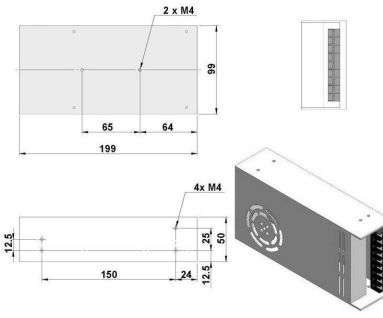
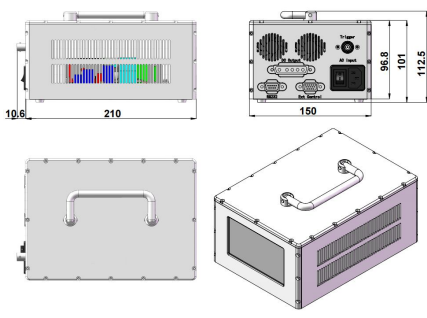
All solid state AOM Q-switched laser at 532 nm has the features of high peak power, high repetition rate, and short pulse duration, which is in marking on materials that are hard, such as highly reflective metals: silver and gold; semiconductors: including silicon, gallium arsenide and germanium, and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



SPECIFICATIONS

Wavelength (nm)	532±1		
Operating mode	Acousto-Optic Q-switched		
Average power (W)	1mW@1Hz; 1W@1kHz	3W@5kHz	3W@10kHz
	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)		
Single pulse energy (μJ)	> 1mJ @ 1Hz~1kHz	> 600uJ @ 1kHz~5kHz	> 300uJ @ 5kHz~10kHz
Rep. rate (kHz)	1Hz~10kHz		
Pulse width (ns)	~10@1Hz~1kHz	~12@1kHz~5kHz	~18@5kHz~10kHz
Transverse mode	TEM <sub>00</sub>		
Beam Circularity (%)	>90		
Beam quality (M <sup>2</sup> )	<1.2		
Beam divergence, full angle (mrad)	<3.5		
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	~0.8		
Polarization ratio and Direction	>100:1, Vertical		
Beam height from base plate (mm)	79		
Warm-up time (minutes)	<10		
Cooling method	Air Cooled		
Environment temperature (°C)	10~35		
Supply Voltage	DC 12V/25A (PSU-12/ PSU-12-P optional)		



AO-532B <i>Integrated electronics</i>	PSU-12 <sup>①</sup> (Power supply 100-240VAC )	PSU-12-P <sup>②</sup> (Power supply 100-240VAC)
 <p>334.5 (L) × 144 (W) × 120.5 (H) mm<sup>3</sup>, 7.45 kg</p>	 <p>DC12V 25A; 199 (L) × 99 (W) × 50 (H) mm<sup>3</sup>, 0.9 kg</p>	 <p>220.6 (L) × 150 (W) × 112.5 (H) mm<sup>3</sup>, 2.75 kg</p>

Note:

- ① Adaptor for 12V/25A.
- ② Adaptor for 12V/25A, and power control function is included.