



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

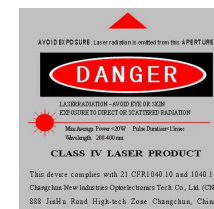


**LD PUMPED ALL-SOLID-STATE  
AOM Q-SWITCHED LASER**

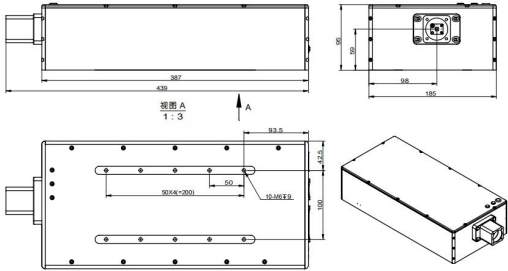
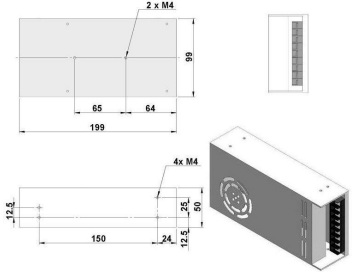
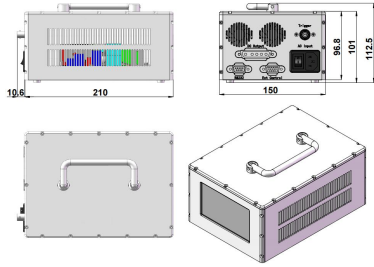

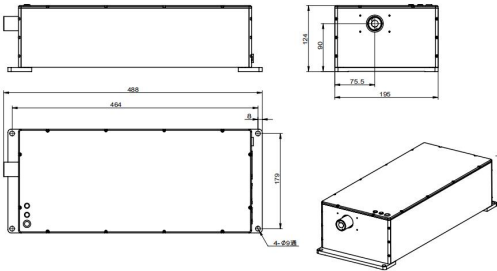
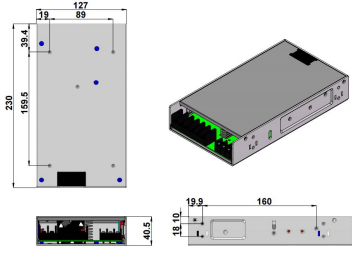
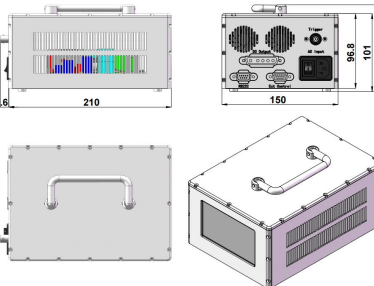

All solid state AOM Q-switched laser at 532 nm has the features of high peak power, high repetition rate, and short pulse duration, which is in marking on materials that are hard, such as highly reflective metals: silver and gold; semiconductors: including silicon, gallium arsenide and germanium, and 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
	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)			
Single pulse energy (μJ)	>300μJ @30kHz	>400μJ @50kHz	>600μJ @60kHz	
Rep. rate (kHz)	20~200	40~150	50~200	
Pulse width (ns)	~12 @30kHz	~10 @50kHz	~13 @60kHz	
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	>100:1, Vertical			
Beam height from base plate (mm)	60	59	90	
Warm-up time (minutes)	<10			
Cooling method	Water Cooled			
Environment temperature (°C)	10~35			
Supply Voltage	DC12V/25A /DC24V 13A (PSU-12/ PSU-12-P optional) (PSU-24/ PSU-24-P optional)			DC30V/18.6A (PSU-30/PSU-36-P optional)



<p>AO-532W-8W/10W <i>Integrated electronics</i></p>	<p>PSU-12<sup>①</sup> (Power supply 100-240VAC)</p>	<p>PSU-12-P<sup>②</sup> (Power supply 100-240VAC)</p>	<p>Water Chiller (WCH-580)</p>
<p>422 (L) × 180 (W) × 95.5 (H) mm<sup>3</sup>, 9.8 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>	<p>369.8 (L) × 258.4 (W) × 240.6 (H) mm<sup>3</sup>, 10.5 kg</p>

<p>AO-532W-20W <i>Integrated electronics</i></p>	<p>PSU-24<sup>①</sup> (Power supply 100-240VAC)</p>	<p>PSU-24-P<sup>②</sup> (Power supply 100-240VAC)</p>	<p>Water Chiller (WCH-580)</p>
 <p>439 (L) × 185 (W) × 95 (H) mm<sup>3</sup>, 9.8 kg</p>	 <p>DC 24V 13A ; 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>	 <p>369.8 (L) × 258.4 (W) × 240.6 (H) mm<sup>3</sup>, 10.5 kg</p>
<p>AO-532W-40W <i>Integrated electronics</i></p>	<p>PSU-30<sup>①</sup> (Power supply 100-240VAC)</p>	<p>PSU-36-P<sup>②</sup> (Power supply 100-240VAC)</p>	<p>Water Chiller (WCH-580)</p>
 <p>488 (L) × 195 (W) × 124 (H) mm<sup>3</sup>, 16.4 kg</p>	 <p>DC 30V 18.6A ; 230 (L) × 127 (W) × 40.5 (H) mm<sup>3</sup>, 1kg</p>	 <p>220.6 (L) × 150 (W) × 112.5 (H) mm<sup>3</sup>, 2.75 kg</p>	 <p>369.8 (L) × 258.4 (W) × 240.6 (H) mm<sup>3</sup>, 10.5 kg</p>

Note:

① Adaptor for 30V/18.6A.

② Adaptor for 30V/18.6A, and power control function is included.