



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



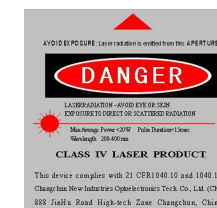
LD PUMPED ALL-SOLID-STATE  
AOM Q-SWITCHED LASER

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)	>260μJ @30kHz	>330μJ @30kHz	>400μJ @50kHz	>600μJ @60kHz
Rep. rate (kHz)	20~200	20~200	40~150	50~200
Pulse width (ns)	~13 @30kHz	~12 @30kHz	~10 @50kHz	~13 @60kHz
Warm-up time (minutes)	<10			
Transverse mode	TEM <sub>00</sub>			
Beam Circularity (%)	>90			
Beam divergence, full angle (mrad)	< 0.2(10× beam expansion)			
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	8±1(10×)	8±1(10×)	10±1(10×)	10±1(10×)
Beam quality (M <sup>2</sup> )	<1.2			
Beam height from base plate (mm)	59.5			90
Polarization ratio and Direction	>100:1, Vertical			
Cooling method	Water Cooled			
Environment temperature (°C)	10~35			
Supply Voltage	DC 12V( ≥ 25A)	DC 12V( ≥ 25A)	DC 24V( ≥ 13A)	DC 36V ( ≥ 15A)
Dimensions(mm <sup>3</sup> )	460.85*180*95	460.85*180*95	478*185*95	540*195*124
Weight(Kg)	10	10	10.8	16.4



AO-532W-LM			Power supply 100-240VAC (Optional)	WCH-370 (Optional)
8W/10W	20W	40W		
<p>460.85 (L) × 180 (W) × 95 (H) mm<sup>3</sup>, 10 kg</p>	<p>467 (L) × 185 (W) × 95 (H) mm<sup>3</sup>, 10.8 kg</p>	<p>540 (L) × 195 (W) × 124 (H) mm<sup>3</sup>, 16.4 kg</p>	<p>199 (L) × 99 (W) × 50 (H) mm<sup>3</sup>, 0.9 kg</p>	<p>580 (L) × 290 (W) × 470 (H) mm<sup>3</sup>, 23 kg</p>