



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



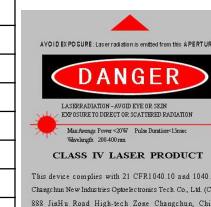
LD PUMPED ALL-SOLID-STATE
AOM Q-SWITCHED LASER

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
Transverse mode	TEM ₀₀			
Beam Circularity (%)	>90			
Beam quality (M ²)	<1.2			
Beam divergence, full angle (mrad)	< 0.2			
Beam diameter at the aperture (mm)	8±1	8±1	10±1	10±1
Polarization ratio and Direction	>100:1, Vertical			
Beam height from base plate (mm)	59.5			90
Warm-up time (minutes)	<10			
Cooling method	Water Cooled			
Environment temperature (°C)	10~35			
Supply Voltage	DC 12V/25A (optional)		DC24V/13A (optional)	DC 36V /15A (optional)



AO-532W-LM			Power supply 100-240VAC	WCH-370
8W/10W <i>Integrated electronics</i>	20W <i>Integrated electronics</i>	40W <i>Integrated electronics</i>		
<p>460.85 (L) × 180 (W) × 95 (H) mm³, 10 kg</p>	<p>467 (L) × 185 (W) × 95 (H) mm³, 10.8 kg</p>	<p>540 (L) × 195 (W) × 124 (H) mm³, 16.4 kg</p>	<p>DC 12V 25A/ DC24V 13A/ DC36V 15A 199 (L) × 99 (W) × 50 (H) mm³, 0.9 kg</p>	<p>580 (L) × 290 (W) × 470 (H) mm³, 23 kg</p>