

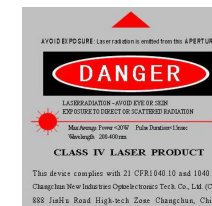
AO-1342W /1~600μJ/600mW~6W

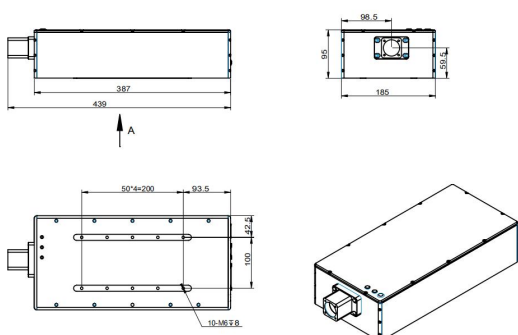
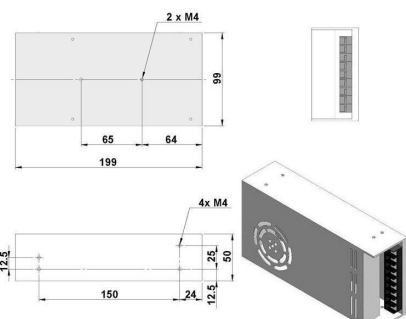



**LD PUMPED ALL-SOLID-STATE  
AOM Q-SWITCHED LASER**

All solid state AOM Q-switched laser AO-1342W has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in marking on harder metals such as Titanium, Inconel, or Tool Steel.

Wavelength (nm)	1342±1	
Operating mode	Acousto-Optic Q-switched	
Average power (mW)	600mW@1kHz	6000mW@30kHz-90kHz
	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)	
Single pulse energy (μJ)	>600@1kHz; >150@30kHz	>100@50kHz
Rep. rate (kHz)	1-30	30-100
Pulse width (ns)	~20	~55@50kHz
Peak power (kW)	~30kW @1kHz	~2kW @50kHz
Ave power stability (over 4 hours)	<5%, <3%, <2%, <1%	
Transverse mode	TEM <sub>00</sub>	
Beam divergence, full angle (mrad)	<4.5	
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	~2	
Polarization ratio	>100:1, Horizontal	
Beam height from base plate (mm)	59.5	
Warm-up time (minutes)	<10	
Cooled method	Water Cooled	
Operating temperature (°C)	10~35	
Supply Voltage	DC24V/13A	



AO-1342W <i>Integrated electronics</i>	Power supply 100-240VAC	Water Chiller (WCH-580)
 <p>439 (L) × 185 (W) × 95 (H) mm<sup>3</sup>, 10.6 kg</p>	 <p>DC 24V 13A; 199 (L) × 99 (W) × 50 (H) mm<sup>3</sup>, 0.9 kg</p>	 <p>369.8 (L) × 258.4 (W) × 240.6 (H) mm<sup>3</sup>, 10.5 kg</p>