

AO-1342W/600mW/6000mW

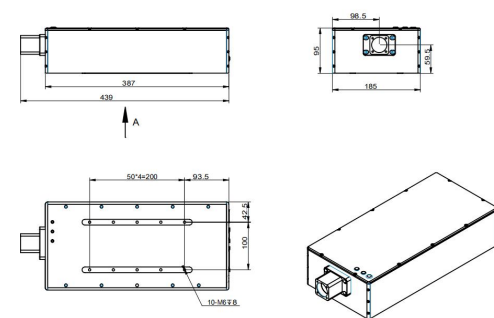
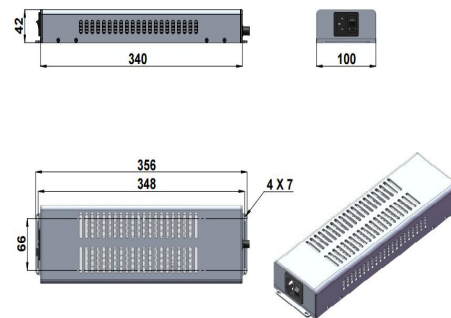
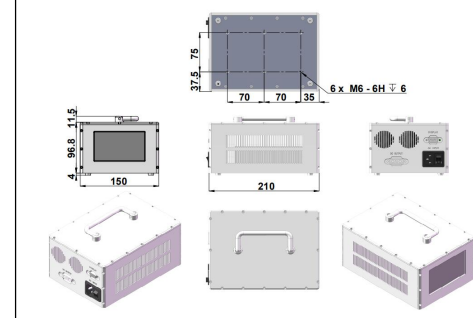
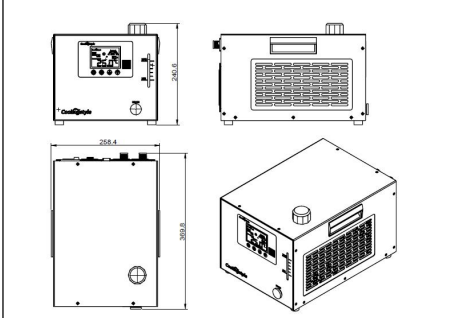
**LD PUMPED ALL-SOLID-STATE
AOM Q-SWITCHED LASER**

All solid state AOM Q-switched laser at 1342nm 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.


SPECIFICATIONS

Wavelength (nm)	1342±1		
Operating mode	Actively		
Average power (mW)	600@1kHz		6000@30kHz-90kHz
	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)		
Single pulse energy (μJ)	>600@1kHz	>150@30kHz	>100@50kHz
Rep. rate ¹	1-30kHz		30-100kHz
Pulse duration (ns) ²	~20@1kHz		~55@50kHz
Peak power (kW)	~30@1kHz		~2 @50kHz
Power stability (rms, 4 hours ± 3°C)	<2%, <1%		
Transverse mode	TEM ₀₀		
Beam divergence, full angle (mrad)	<4.5		
Beam diameter at the aperture (1/e ² , 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		
Operating voltage (VDC)	24V/20.9A		
Expected lifetime (hours)	>10000		



LASER HEAD (Driver Integrated)	POWER SUPPLY PSU-24 (100-240VAC) optional	POWER SUPPLY PSU-24-P ³ (100-240VAC) optional	WATER CHILLER(WCH-580)
 439 (L) × 185 (W) × 95 (H) mm³, 10.6 kg	 356(L) × 100 (W) × 42 (H) mm³, 2.2kg	 210 (L) × 150 (W) × 112.3 (H) mm³, 2.75 kg	 369.8 (L) × 258.4(W) × 240.6 (H) mm³, 10.5 kg

1 Other rep.rate range available on request.

2 Pulse width not tunable, the value varies with different frequency.

3 Parameters can be adjusted.(on/off, Rep.

Website: www.precisometer.com E-mail: info@precisometer.com

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