

AO-Mini-E-532/1-5000mW/1-400μJ



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

All solid state AOM Q-switched laser at 532nm has the features of high peak power, high repetition rate, and short pulse duration, which is used in laser inner carver, laser marking, scientific research and so on.

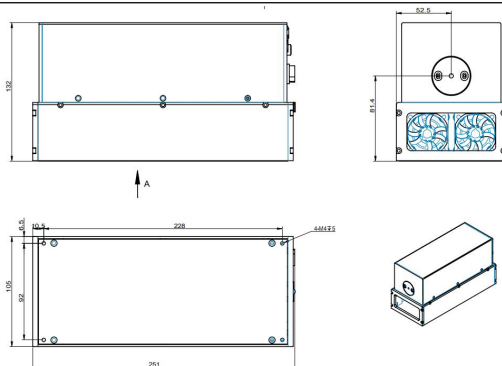


SPECIFICATIONS

Wavelength (nm)	532±1				
Operating mode	Actively				
Average power (mW)	400@1kHz	2000@10kHz	500@20kHz	5000@50kHz	5000@80kHz
	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)				
Single pulse energy (μJ)	>400@1Hz-1kHz	>200@10kHz	>25@20kHz	>100@50kHz	>60@80kHz
Rep. rate ¹	1Hz-10kHz		10-20kHz	30-100kHz	
Pulse duration (ns) ²	~7@1Hz-1kHz	~13@10kHz	~25@20kHz	~7@50kHz	~9@80kHz
Peak power (kW)	~50@1Hz-1kHz	~15@10kHz	~1@20kHz	~15@50kHz	~6@80kHz
Power stability (rms, 4 hours ± 3°C)	<2%, <1%				
Transverse mode	TEM ₀₀				
Beam divergence, full angle (mrad)	< 3				
Beam diameter at the aperture (1/e ² , mm)	~0.5				
Polarization ratio	>100:1 Horizontal				
M ²	<1.2				
Warm-up time (minutes)	<10				
Beam height from base plate (mm)	81.4mm				
Cooled method	Air cooled				
Operating temperature (°C)	10-35				
Operating voltage (VDC)	24V/14.5A				
Expected lifetime (hours)	>10000				

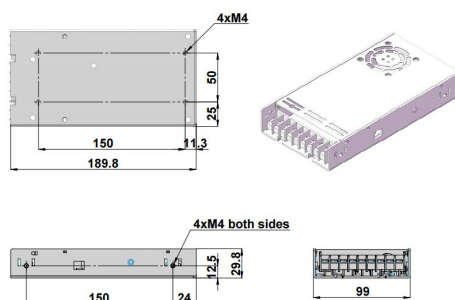


LASER HEAD
(Driver Integrated)



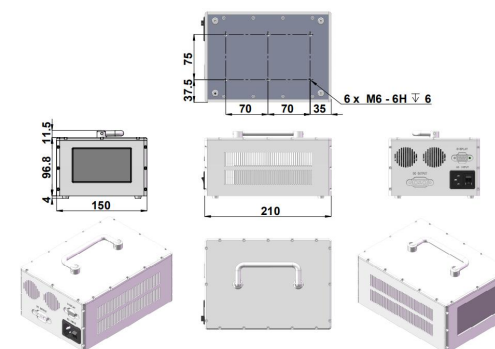
251 (L) × 105 (W) × 132 (H) mm³, 4 kg

POWER SUPPLY
PSU-24 (100-240VAC) optional



189.8 (L) × 99 (W) × 29.8 (H) mm³, 0.8 kg

POWER SUPPLY
PSU-24-P³ (100-240VAC) optional



210 (L) × 150 (W) × 112.3 (H) mm³, 2.75 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. Rate, etc.)

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