

AO-Mini-946/100-500mW/100-150uJ

SPECIFICATIONS



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

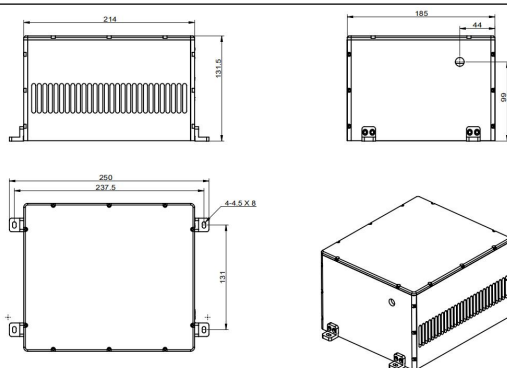
All solid state AOM Q-switched laser at 946 nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in marking, carving, measure, research and so on.



Wavelength (nm)	946±1		
Operating mode	Actively		
Average power (mW)	100@1kHz	500@5kHz	
	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)		
Single pulse energy (μJ)	~150@100Hz	~150@1kHz	~100@5kHz
Rep. rate ¹	Hz-5kHz		
Pulse duration (ns) ²	20-50		
Peak power (kW)	~5@100Hz	~5@1kHz	~2@5kHz
Power stability (rms, 4 hours ± 3°C)	<5%, <3%, <2%		
Transverse mode	TEM ₀₀		
Beam divergence, full angle (mrad)	<3.0		
Beam diameter at the aperture (1/e ² , mm)	~1		
M ²	<1.5		
Warm-up time (minutes)	<10		
Beam height from base plate (mm)	99		
Cooled method	Air cooled		
Operating temperature (°C)	10-35		
Operating voltage (VDC)	12V/29A		
Expected lifetime (hours)	>10000		

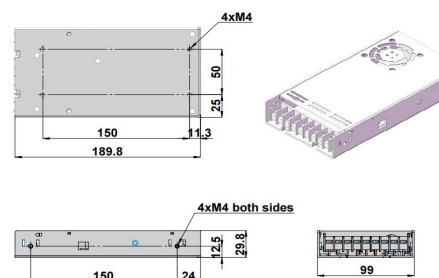


LASER HEAD (Driver Integrated)



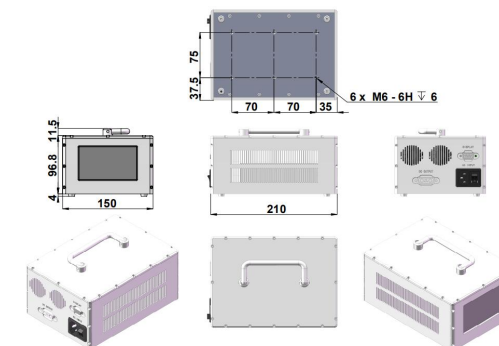
250 (L) × 185 (W) × 132 (H) mm³, 6.9 kg

POWER SUPPLY PSU-12 (100-240VAC) optional



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

POWER SUPPLY PSU-12-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.)