

DATA SHEET

## **AO-N-532** /1~60 μJ /1~500mW



# LD PUMPED ALL-SOLID-STATE AOM Q-SWITCHED LASER AT 532 nm

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









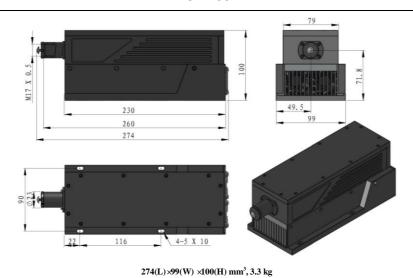


Average power (mW) $ \frac{1 \sim 500 \text{mW} (500 \text{mW} @ 10 \text{kHz})}{\text{Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)} $ Single pulse energy ( $\mu$ J) $ \frac{1 \sim 50}{(60 \mu \text{J} @ 5 \text{kHz}; 50 \mu \text{J} @ 10 \text{kHz})} $ Rep. rate (kHz) $ 1 \sim 50 $ Pulse duration (ns) $ \frac{1 \sim 50}{\text{Pulse duration (ns)}} $ Typically $\sim 10 @ < 10 \text{kHz}$ , varies from power and repetition. $ \frac{1 \sim 5}{10} \times \frac{1}{10} $	
Average power (mW)  Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz large)  Single pulse energy ( $\mu$ J)  Rep. rate (kHz)  1~50  Pulse duration (ns)  Peak power (kW)  1~5 (5kW@10kHz)  Ave power stability (over 4 hours)  23%, <5%,  Warm-up time (minutes)  Beam divergence, full angle (mrad)	
Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz  Single pulse energy (μJ)  Rep. rate (kHz)  Pulse duration (ns)  Peak power (kW)  Ave power stability (over 4 hours)  Ave power stability (over 4 hours)  Single pulse energy (mJ) * Rep. rate (kHz)  1~50  Typically ~10 @<10kHz, varies from power and repetition.  Peak power (kW)  1~5 (5kW@10kHz)  43%, <5%,  Warm-up time (minutes)  Single pulse energy (mJ) * Rep. rate (kHz)  1~50  Typically ~10 @<10kHz, varies from power and repetition.  1~50  1~50  43%, <5%,  410  Beam divergence, full angle (mrad)	
Single pulse energy (μ)   (60μJ @5kHz; 50μJ @10kHz)     Rep. rate (kHz)   1~50     Pulse duration (ns)   Typically ~10 @<10kHz, varies from power and repetition.   Peak power (kW)   1~5 (5kW@10kHz)     Ave power stability (over 4 hours)   <3%, <5%,     Warm-up time (minutes)   <10     Beam divergence, full angle (mrad)   <1.5	
Pulse duration (ns)  Peak power (kW)  Ave power stability (over 4 hours)  Warm-up time (minutes)  Beam divergence, full angle (mrad)  Typically ~10 @<10kHz, varies from power and repetition.  1~5 (5kW@10kHz)  <3%, <5%,  410	
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Warm-up time (minutes) <10 Beam divergence, full angle (mrad) <1.5	
Beam divergence, full angle (mrad) <1.5	
Beam diameter at the aperture $(1/e^2, mm)$ ~2.0	
Beam height from base plate (mm) 71.8	
Cooled method Air cooled	
Operating temperature ( $^{\circ}$ C) 10~35	
Power supply (220/110VAC) PSU-AOM	
Expected lifetime (hours) 10000	
Warranty period 1 year	-

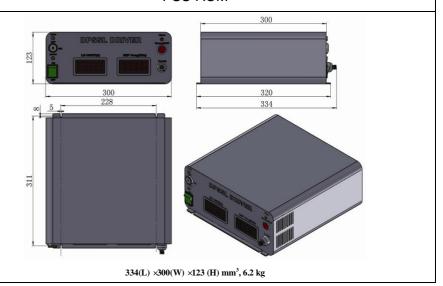




## AO-N-532



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