



AO-S-1053/1~250μJ/1~1000mW

**LD PUMPED ALL-SOLID-STATE  
ACOUSTO-OPTIC Q-SWITCHED LASER  
AT 1053 nm**

All solid state acousto-optic Q-switched laser at 1053 nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in material processing, measure, scientific research and so on.



SPECIFICATIONS

Wavelength (nm)	1053 ±1	
Operating mode	Acousto-Optics Q-switched	
Single pulse energy (μJ)	1~250 (250μJ @ 1kHz; 100μJ @ 10kHz)	
Rep. rate (kHz)	0.1~80	
Pulse duration	Typically 7~11ns @ <10kHz, varies from power and repetition.	
Average power (mW)	Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz)	
Power Stability (rms, over 4 hours)	<3%, <5%, <10%	
Transverse mode	TEM <sub>00</sub>	
M <sup>2</sup> factor	<1.5	
Beam Diameter at the aperture 1/e <sup>2</sup> (mm)	~1.3 (optional)	~0.4
Beam divergence, full angle (mrad)	<1.5 (optional)	<5.0
Polarization ratio	>100:1 Horizontal ±5 degree	
Warm-up Time (minutes)	<10	
Beam height from base plate (mm)	25	
Operating temperature (°C)	10~35	
Power supply (90-264VAC)	PSU-AOM-DL	
Expected lifetime (hours)	10000	
Warranty	1 year	



Note: The laser head needs to be used on a heat sink with good heat dissipation.

<p><b>AO-S-1053</b></p> <p>191(L) × 50(W) × 48(H) mm<sup>3</sup>, 0.78kg</p>	<p><b>PSU-AOM-DL</b></p> <p>270 (L) × 214(W) × 99(H) mm<sup>3</sup>, 3.55 kg</p>
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