

长春新产业光电技术有限公司

Changchun New Industries Optoelectronics Tech. Co., Ltd.

DATA SHEET

AO-S-1053/1~250µJ/1~1000mW



LD PUMPED ALL-SOLID-STATE ACOUSTO-OPTIC Q-SWITHED 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.

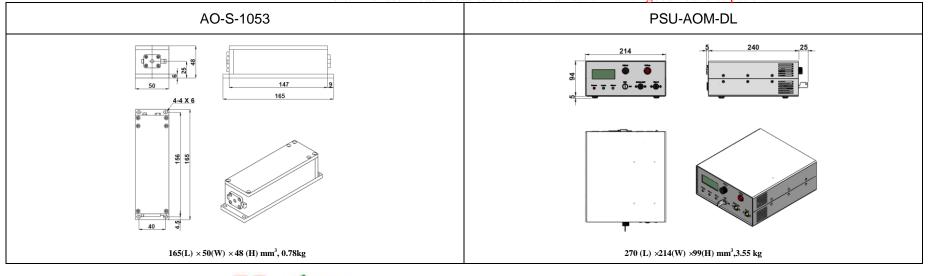


Wavelength (nm)	1053±1	
Operating mode	Acousto-Optics Q-switched	
Single pulse energy (µJ)	1~250 (250µJ @1kHz; 100µJ @10kHz)	
Rep. rate (kHz)	0.1~80	
Pulse duration	Typically7~11ns @<10kHz, varies from power and repetition.	
Average power (mW)	Average power (mW)= Single pulse energy (µJ)* Rep. rate(kHz)	
Power Stability (rms, over 4 hours)	<3%,<5%,<10%	
Transverse mode	TEM ₀₀	
M ² factor	<1.5	
Beam Diameter at the aperture $1/e^2$ (mm)	~0.4	~1.3 (optional)
Beam divergence, full angle (mrad)	<5.0	<1.5 (optional)
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.



SPECIFICATIONS

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