



AO-S-xxx-H series (501-1000nm)

LD PUMPED ALL-SOLID-STATE ACTIVELY LASER

All solid state actively laser 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)	523.5±1	526.5±1	532±1		671±1
Operating mode	Actively				
Average power (mW) ¹	1-300	1-300	1-1000		1-350
Single pulse energy (μJ) ²	1-100 (100μJ@1kHz; 50μJ@5kHz)	1-100 (100μJ@1kHz; 60μJ@5kHz)	1-250 (250μJ@1kHz; 100μJ@10kHz)	1-30 (15μJ@10kHz; 20μJ@50kHz; 5μJ @100kHz)	1-50 (50μJ@1kHz; 45μJ@5kHz)
Pulse duration (ns) ³	~8ns@1kHz; ~14ns@5kHz	~10ns@1kHz; ~17ns@5kHz	~10ns@1kHz; ~25ns@10kHz	~5ns@10kHz; ~14ns@50kHz; ~62ns@100kHz	~23ns@1kHz; ~27ns@5kHz
Peak power (kW)	0.1-12.5	0.1-10	0.1-25	0.1-3.9	0.1-2.2
Rep. rate ⁴	1Hz-50kHz		1Hz-10kHz	10-100kHz	1Hz-50kHz
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%				
Transverse mode	TEM ₀₀				
M ²	<1.5				
Beam diameter at the aperture 1/e ² (mm)	<1.0			~1.2	
Beam divergence, full angle (mrad)	<1.5				
Polarization ratio	>100:1, Vertical (Horizontal optional)			>100:1, Horizontal (Vertical optional)	
Warm-up time (minutes)	<10				
Beam height from base plate (mm)	27.4				
Operating temperature (°C)	10-35				
Power supply (100-240VAC)	PSU-AOM-DL				
Expected lifetime (hours)	>10000				

LASER HEAD ⁵	HEATSINK (optional TC-02-FS)	POWER SUPPLY ⁶
<p style="text-align: center;">175 (L) ×60(W) ×48(H) mm³, 1.0kg</p>	<p style="text-align: center;">202(L)×110(W)×47.5(H) mm³, 1.25kg</p>	<p style="text-align: center;">245.4 (L) ×214(W) ×97.7(H) mm³, 3.2kg</p>

- 1 Average power (mW)= Single pulse energy (μJ)* Rep. rate(kHz)
- 2 Any energy level can be selected within this range.
- 3 Pulse width not tunable, the value varies with different frequency and energy.
- 4 Frequency is adjustable within this range.
- 5 The laser head needs to be used on a heat sink with good heat dissipation.
- 6 Output energy adjustable 10-100%; RS232 control optional.