AO-S-xxx-FL series

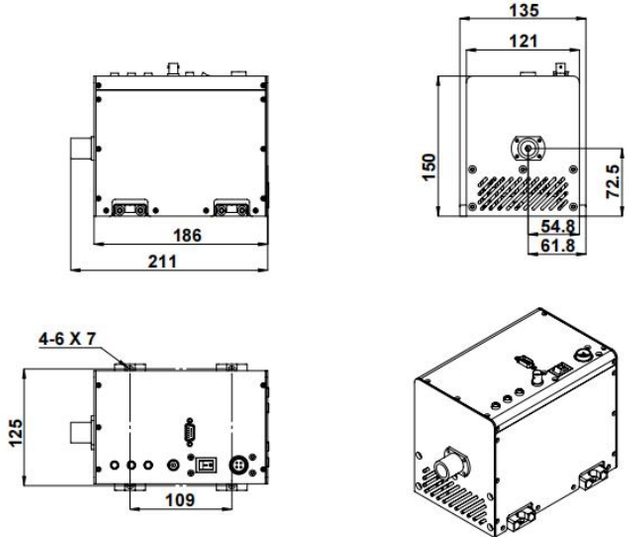
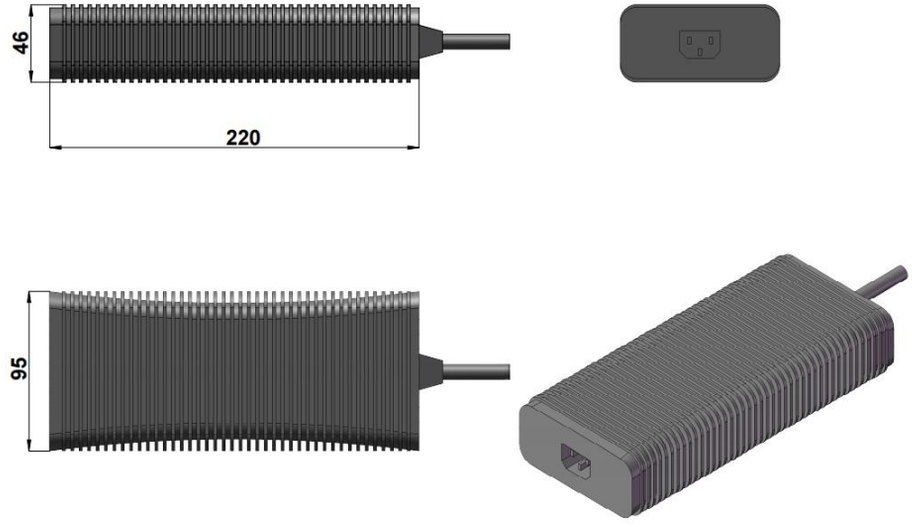
LD PUMPED ALL-SOLID-STATE ACTIVELY LASER

All solid state actively laser has the features of high single pulse energy, short pulse duration, and high peak power, which is widely used in laser distance measuring, laser Radar, laser Raman, ICP-MS, LIBS, scientific research and so on.

SPECIFICATIONS

Wavelength (nm)	349±1
Operating mode	Actively
Average power (mW)[1]	1-100
Single pulse energy (μJ)[2]	1-60(60uJ@1kHz; 50uJ@2kHz; 30uJ@3kHz; 15uJ@4kHz; 10uJ@5kHz)
Pulse duration (ns)[3]	~5@1kHz; ~6@2kHz; ~7@3kHz; ~8@4kHz; ~10@5kHz
Peak power (kW)	0.1-12
Rep. rate[4]	1Hz-5kHz
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%
Transverse mode	TEM_{00}
M^2	<1.2
Beam diameter at the aperture 1/e^2 (mm)	~0.5
Beam divergence, full angle (mrad)	<2
Polarization ratio	>100:1, Vertical (Horizontal optional)
Warm-up time (minutes)	<10
Beam height from base plate (mm)	72.5
Operating temperature (℃)	10-35
Power supply (12VDC)	12V/21A
Expected lifetime (hours)	>10000

Website: http://www.cnilaser.com E-mail: sales@cnilaser.com Tel: +86-431-85603799 Fax: +86-431-87020258

LASER HEAD (DRIVER Integrated)[5]	POWER SUPPLY (100-240VAC) optional
 211 (L) ×135 (W) ×150 (H) mm³, 4.0kg	 220 (L) ×95 (W) ×46 (H) mm³, 1.3kg

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 Output energy adjustable 10-100%; RS232 control optional.

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