EO-S 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)	532±1	1064±1
Operating mode	Actively	
Average power (mW)[1]	1-70	1-300
Single pulse energy (μJ)[2]	1-70 (70μJ @1kHz; 10μJ @100Hz)	1-300 (300μJ @1kHz; 250μJ @100Hz)
Pulse duration (ns)[3]	~6	~8
Peak power (kW)	0.2-12	0.1-37
Rep. rate[4]	1Hz-1kHz	
Pulse Jitter (Sdev) @1kHz[5]	<1ns	
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	
Beam divergence, full angle (mrad)	<1.5	
Warm-up time (minutes)	<10	
Beam height from base plate (mm)	35	
Operating temperature (°C)	10-35	
Power supply (100-240VAC)	PSU-EOM-DL	
Expected lifetime (hours)	>10000	

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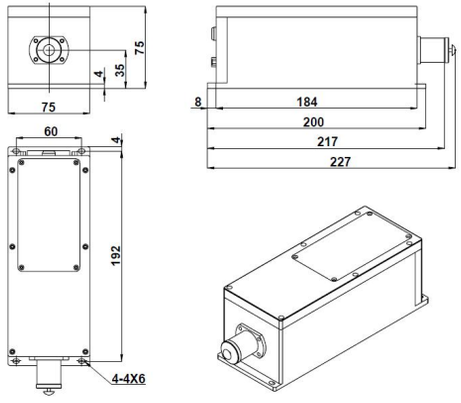
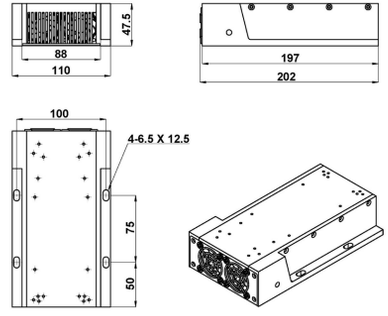
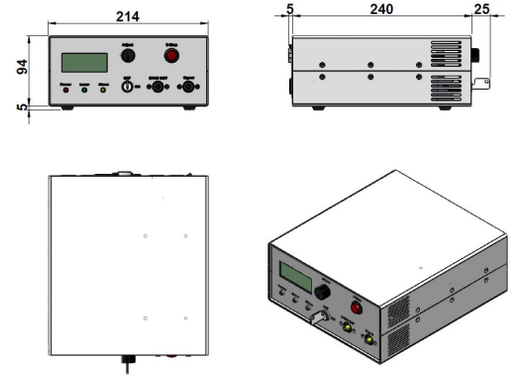
LASER HEAD[6]	HEATSINK (optional TC-02-FS)	POWER SUPPLY[7]
		
227 (L) × 75 (W) × 75 (H) mm³, 2.05kg	**202(L)×110(W)×47.5(H) mm³, 1.25kg**	**270 (L) ×214 (W) ×99 (H) mm³, 3.02kg**

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 Precision of digital oscilloscope: bandwidth 1GHz; sample rate: 10GS/s.

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

7 Output power adjustable 10-100%;