



EO-S-xxx-RS series (501-1000nm)

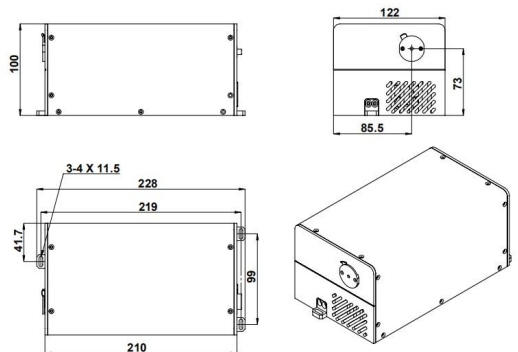
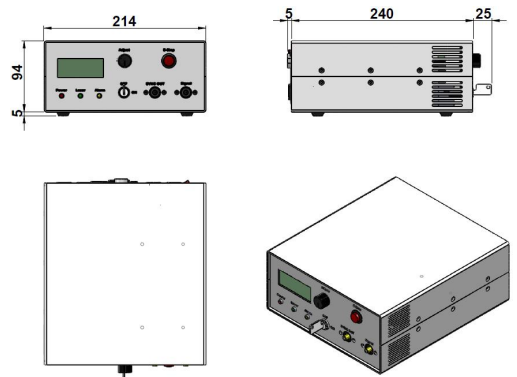
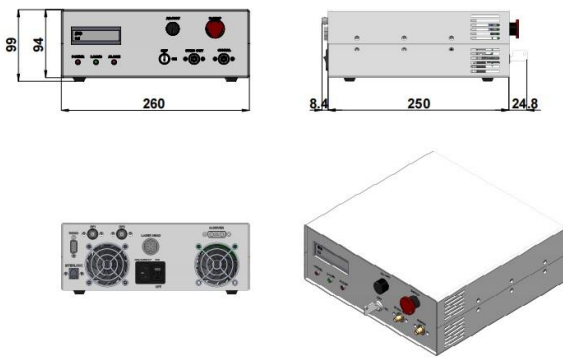
LD PUMPED ALL-SOLID-STATE ACTIVELY LASER

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	1-150	1-450	1-300	1-1500	1-1500
Single pulse energy (μJ) ²	1-150 (150@1kHz)	1-50 (50@1kHz; 12@20kHz)	1-300 (300@1kHz)	1-100 (100@1kHz; 75@20kHz)	1-100 (100@1kHz; 60@20kHz; 25@50kHz; 10@100kHz)
Pulse duration (ns) ³	~1.5	~1.3 (~1.3@1kHz; ~1.9@20kHz)	~1.8	~1.6 (~1.6@1kHz; ~2.0@20kHz)	~1.3 (~1.3@1kHz; ~3@20kHz; ~5@50kHz; ~8@100kHz)
Peak power (kW)	0.6-100	0.7-38	0.5-160	0.5-60	0.1-76.9
Rep. rate ⁴	1Hz-1kHz	1-20kHz	1Hz-1kHz	1-20kHz	1-100kHz
Jitter (ns, sdev) (optional)	<0.2 (Ext)				
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)	73				
Operating temperature (°C)	10-35				
Power supply (100-240VAC)	PSU-EOM-DL/PSU-EOM-L (optional) ⁵				
Expected lifetime (hours)	>10000				

LASER HEAD	POWER SUPPLY (PSU-EOM-DL) ⁶	POWER SUPPLY (PSU-EOM-L) ⁶
 228 (L) × 122 (W) × 100 (H) mm³, 4.0kg	 270 (L) × 214 (W) × 99 (H) mm³, 3.02kg	 283.2 (L) × 260 (W) × 99 (H) mm³, 3.6kg

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 This power supply is designed for low-jitter lasers.

6 Output energy adjustable 10-100%;