

EO-532-H/0.4-0.8mJ

HIGH ENERGY DIODE PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

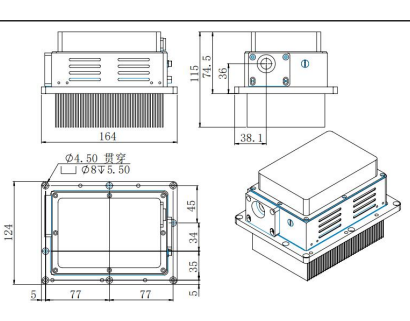
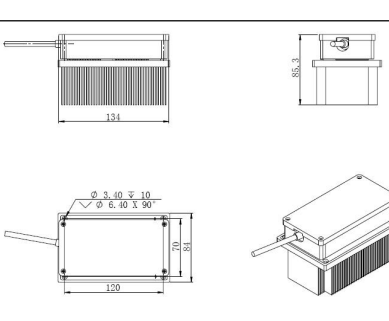
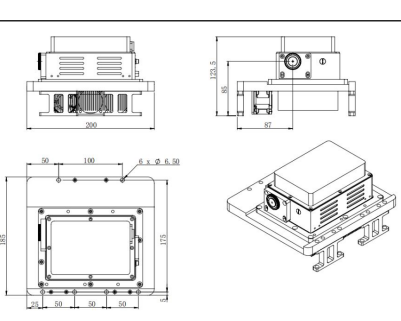
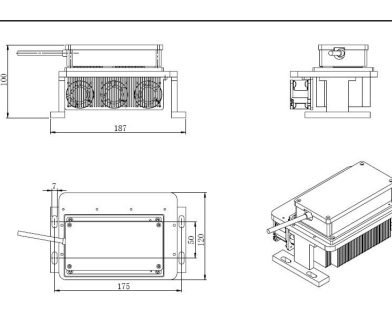
High energy diode pumped all solid state Q-switched laser at 532nm has the features of high single pulse energy, short pulse duration, and high peak power, which is widely used in topography measurement, marking, ranging, glass carving, micro-processing, scientific research, and so on.

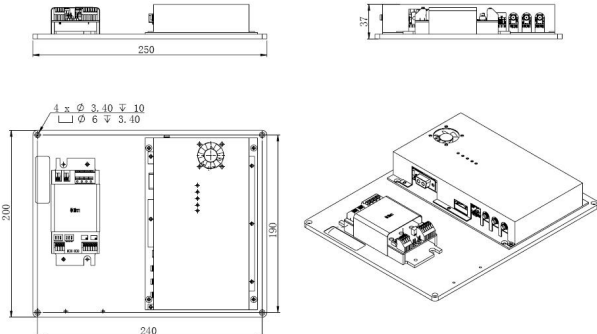
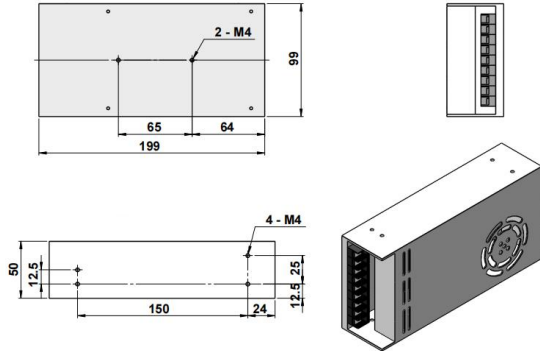
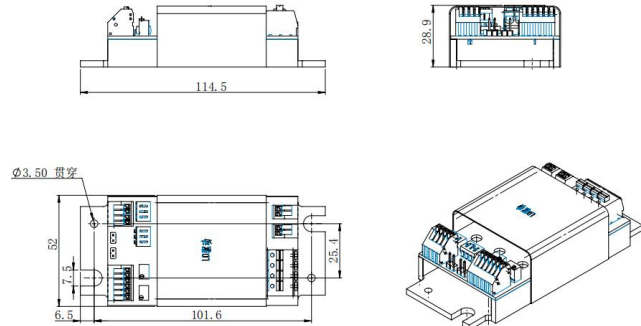
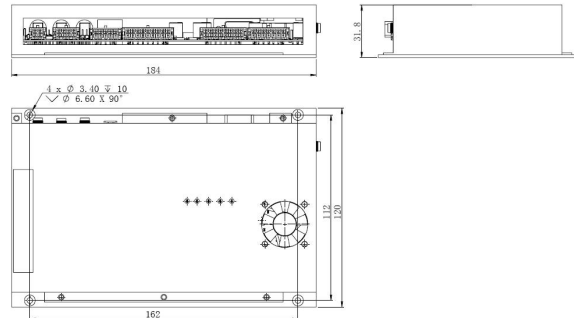


SPECIFICATIONS

Wavelength (nm)	532±1	
Operating mode	Actively	
Single pulse energy (mJ) ¹	0.4@5kHz	0.4-0.8@3kHz
Pulse duration (ns)	<6@5kHz	<10@3kHz
Rep. rate ²	1-10kHz	1-3kHz
Power stability (rms, 4 hours ±3°C)	<2%, <1%	
M ²	<1.5	<2
Pointing stability over temperature (urad/°C)	<20	
Beam divergence, full angle (mrad)	<3	
Beam diameter (mm)	~1	
Beam height from base plate (mm) ³	76.5	85
Warm-up time (minutes)	<15	
Cooled method	Conduction (EO-532-H-I)	Air cooled (EO-532-H-II)
Operating temperature (°C)	-20-55	
Power supply (24VDC)	PSU-EO-H (24V/13A)	
Expected lifetime (hours)	>10000	



LASER HEAD (EO-532-H-I) ⁴	LD ⁵	LASER HEAD (EO-532-H-II)	LD
 Technical drawings of the LASER HEAD (EO-532-H-I) showing front, side, and top views with dimensions. The front view shows a width of 164mm and a height of 115mm. The side view shows a depth of 74.5mm and a mounting bracket height of 38.1mm. The top view shows a square footprint with a width of 124mm and a height of 45mm. A detail view shows a square hole with a diameter of 4.50mm and a square hole with a side length of 8.50mm. 164(L)×124(W)×115 (H)mm³, 4.4kg	 Technical drawings of the LD (Laser Diode) showing front and side views with dimensions. The front view shows a width of 134mm and a height of 85.3mm. The side view shows a depth of 85.3mm and a mounting bracket height of 38.1mm. 134(L)×84(W)×85.3(H)mm³, 2.1kg	 Technical drawings of the LASER HEAD (EO-532-H-II) showing front, side, and top views with dimensions. The front view shows a width of 200mm and a height of 123.5mm. The side view shows a depth of 187mm and a mounting bracket height of 38.1mm. The top view shows a square footprint with a width of 187mm and a height of 123.5mm. 200(L)×185(W)×123.5(H)mm³, 5.7kg	 Technical drawings of the LD (Laser Diode) showing front and side views with dimensions. The front view shows a width of 187mm and a height of 100mm. The side view shows a depth of 187mm and a mounting bracket height of 38.1mm. 187(L)×120(W)×100(H)mm³, 2.6kg

DRIVER (PSU-EO-H)	POWER SUPPLY (100-240VAC) optional
 250(L)×200(W)×37(H)mm³, 1.4kg	 580(L) ×290(W) ×470(H) mm³, 0.95 kg
DRIVER include:	
LD Driver	Control Board
 114.5(L)×52(W)×28.9(H)mm³, 0.2kg	 184(L)×120(W)×31.8(H)mm³, 0.7kg

- 1 The output power and energy varies with different frequency; Higher energy can be customized.
- 2 Frequency is adjustable, adjust the step size to 1kHz. One fixed value between 1k-10kHz or 1k-3kHz.
- 3 Beam height from base plate is 80mm at conduction cooled, 56mm at air cooled.
- 4 Heat dissipation is offered by customer (>70W).
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