

EO-1064-G/10uJ-2.5mJ

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

High energy diode pumped all solid state Q-switched laser at 1064nm has the features of high single pulse energy, short pulse duration, and high peak power, which is widely used in topography measurement, marking, ranging, micro-processing, scientific research, and so on.

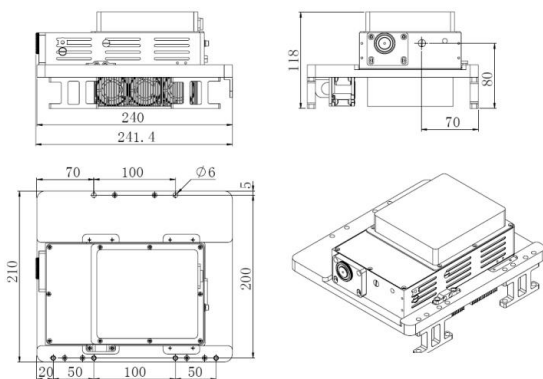


SPECIFICATIONS

Wavelength (nm)	1064±1			1064±1
Operating mode	Actively			Actively
Average power (W) ¹	50mW-4W@5kHz	250mW-7.5W@25kHz	20mW-5W@2kHz	500mW-10W@50kHz
Single pulse energy (mJ)	10uJ-0.8mJ@5kHz	10uJ-0.3mJ@25kHz	10uJ-2.5mJ@2kHz	10uJ-0.2mJ@50kHz
Pulse duration (ns)	<8@5kHz	<15@25kHz	<15@2kHz	<8@50kHz
Rep. rate ²	1-25kHz		1-3kHz ³	1-100kHz
Power stability (rms, 4 hours ±3°C)	<2%, <1%			<2%, <1%
M ²	<1.2		<2	<2
Pointing stability (urad, std)	<20			<20
Beam divergence, full angle (mrad)	<3			<3
Beam diameter (mm)	~1			~1
Beam height from base plate (mm)	80, 56 ⁴			78
Warm-up time (minutes)	<15			<15
Cooled method	Air cooled (EO-1064-G-I) or Water cooled (EO-1064-G-III) ⁵			Air cooled (EO-1064-G-II)
Operating temperature (°C)	15-30			15-30
Power supply (24VDC)	PSU-EO-G (24V/13A)			PSU-EO-G (24V/13A)
Expected lifetime (hours)	>10000			

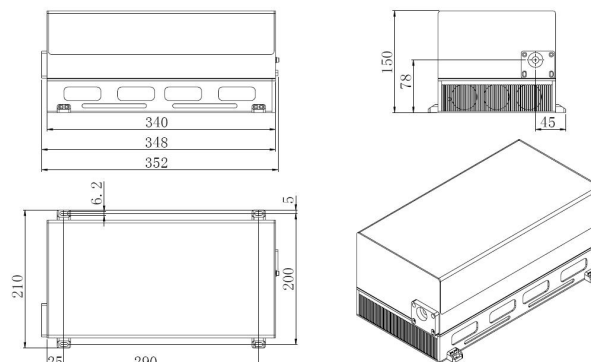


LASER HEAD (EO-1064-G-I)⁶



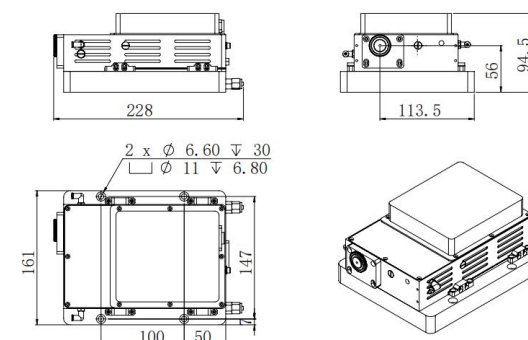
241.4(L)×210(W)×118(H)mm³, 5.8kg

LASER HEAD (EO-1064-G-II)⁷

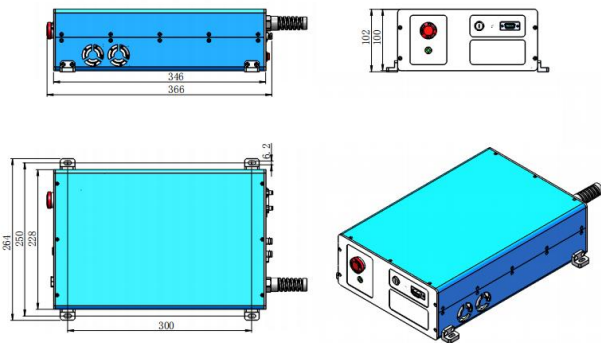
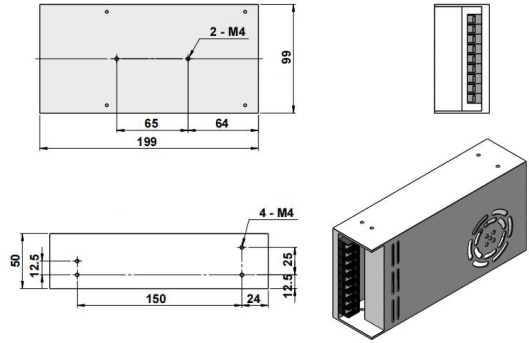
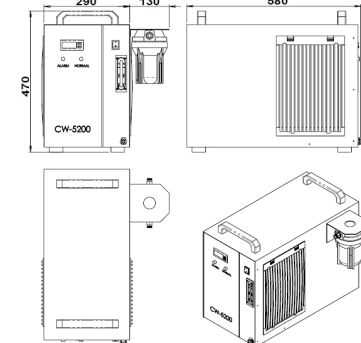


352(L)×210(W)×150(H)mm³, 10kg

LASER HEAD (EO-1064-G-III)⁸



228(L)×161(W)×94.5(H)mm³, 5.2kg

DRIVER (PSU-EO-G)	POWER SUPPLY (100-240VAC) optional	WATER CHILLER (WCH-1500)
 366(L)×264(W)×102 (H)mm³, 6.5kg	 580(L) ×290(W) ×470(H) mm³, 0.95 kg	 580(L) ×290(W) ×470(H) mm³, 24 kg

- 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.
- 3 One fixed value between 1k-3kHz.
- 4 Beam height from base plate is 80mm at air cooled, 56mm at water cooled.
- 5 Air cooled (all power); Water cooled (all power).
- 6 Air cooled.
- 7 Air cooled.
- 8 Water cooled.