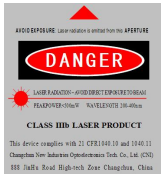
AO-U-xxx-DP series

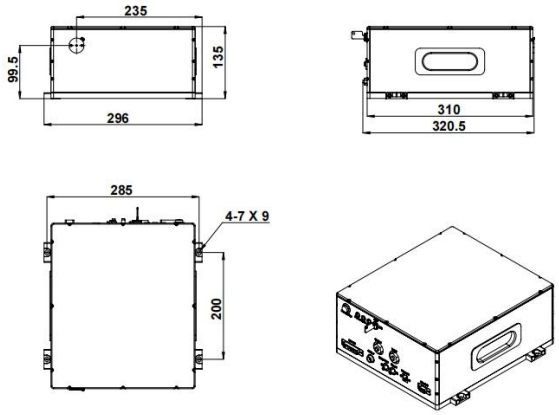
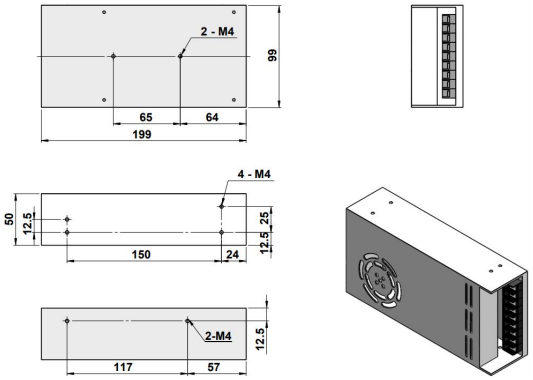
LD PUMPED ALL-SOLID-STATE ACTIVELY LASER



All solid state actively laser has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in material processing, measure, scientific research and so on.

SPECIFICATIONS

Wavelength (nm)	213±1	303±1	320±1	607±1	639±1	721±1
Operating mode	Actively					
Average power (mW)[1]	1-5@15kHz	1-3@5kHz	1-40@5kHz	1-400@5kHz	1-700@5kHz	1-200@5kHz
Single pulse energy (μJ)[2]	0.3@15kHz	0.6@5kHz	1-8@5kHz	1-80@5kHz	1-140@5kHz	1-40@5kHz
Pulse duration (ns)[3]	~12@15kHz	~18@5kHz	~13@5kHz	~35@5kHz	~18@5kHz	~20@5kHz
Peak power (kW)	~0.1@15kHz	~0.1@5kHz	0.1-0.6@5kHz	0.1-2.3@5kHz	0.1-7.8@5kHz	0.1-2@5kHz
Rep. rate (kHz)[4]	1-15	1-30				
Power stability (rms, 4 hours ±3°C)	<5%, <3%					
Transverse mode	Near TEM_{00}			TEM_{00}		
Beam diameter at the aperture $1/e^2$ (mm)	<2.0					
Beam divergence, full angle (mrad)	<2.0					
Warm-up time (minutes)	<10					
Beam height from base plate (mm)	99.5					
Operating temperature (°C)	10-35					
Cooled method	Water cooled					
Power supply (12VDC)	12V/25A					
Expected lifetime (hours)	>10000					

LASER HEAD (DRIVER Integrated)[5]	POWER SUPPLY (100-240VAC) optional	WATER CHILLER
		
320.5 (L) ×296 (W) ×135 (H) mm³, 16.8kg	199(L) ×99 (W) ×50 (H) mm³, 0.83kg	345 (L) ×248 (W) ×215 (H) mm³, 11.0kg

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.