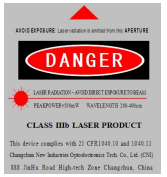
MPL-U series (600-700nm)

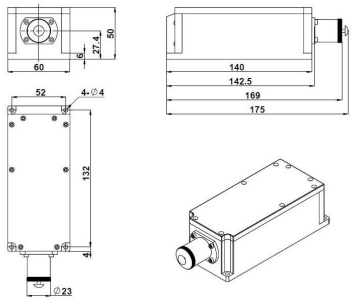
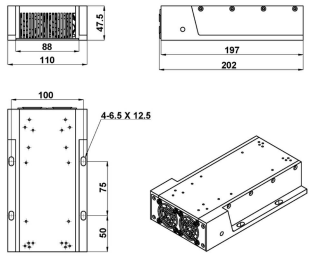
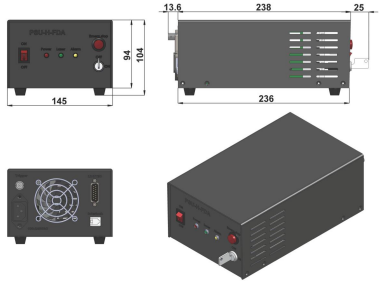
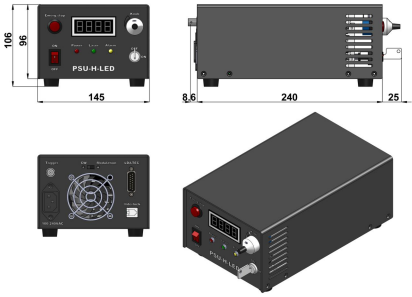
LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

All solid state passively laser has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in industry (marking on the diamond or stone), teaching of nonlinear optics, fiber communication, etc.



SPECIFICATIONS

Wavelength (nm)		656.5±1	660±1
Operating mode		Passively	
Average power (mW)[1]		1-10	
Single pulse energy (μJ)[2]		1-5	
Pulse duration (ns)		~15	
Peak power (kW)		0.1-0.3	
Rep. rate	Int[3]	1-4kHz	
	Ext[4]	1-4kHz	
	QCW[5]	2-5kHz	
Power stability (rms, 4 hours ±3°C)		<5%, <3%, <2%	
Transverse mode		TEM_{00}	
M^2		<1. 5	
Beam diameter at the aperture (mm)		~1.0	
Beam divergence, full angle (mrad)		<1. 5	
Warm-up time (minutes)		<5	
Beam height from base plate (mm)		27.4	
Operating temperature (℃)		10-35	
Power supply (100-240VAC)		PSU-H-FDA/PSU-H-LED	
Expected lifetime (hours)		>10000	

LASER HEAD[6]	HEATSINK (optional TC-02-FS)
	
175(L)×60(W) ×50(H) mm³, 1.0kg	**202(L)×110(W)×47.5(H) mm³, 1.25kg**
POWER SUPPLY (PSU-H-FDA)[7]	**POWER SUPPLY (PSU-H-LED)[8]**
	
276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg	**273.6 (L) ×145(W) ×106 (H) mm³, 2.3 kg**

1 Average power (mW)= Single pulse energy (μJ)* Rep. rate(kHz)

2 Any energy level can be selected within this range.

3 The frequency is selectable from one discrete values within the range.

4 External triggered.

5 The rep.rate is a free running value within this range.

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

7 Fixed output energy.

8 In QCW mode, the output power is adjustable from 10% to 100%.