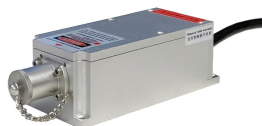




MPL-U series (531-700nm)

LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

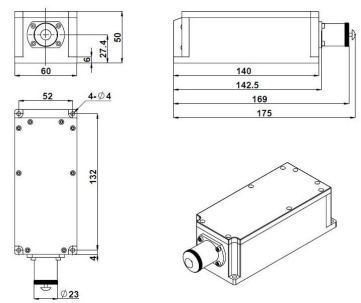
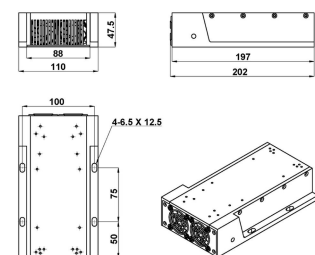
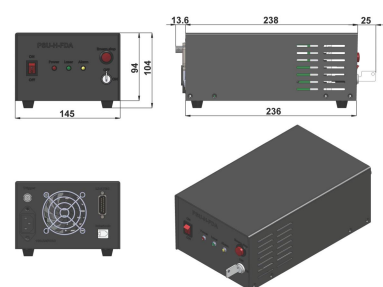
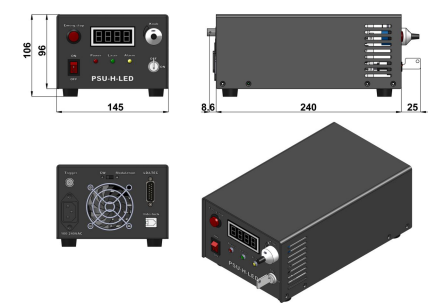
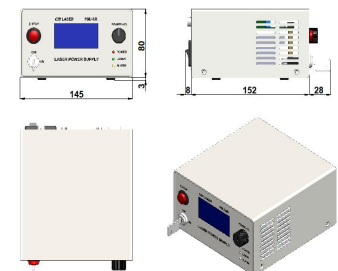


All solid state passively laser has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in industry (marking on the diamond or stone), teaching of nonlinear optics, fiber communication, etc.



SPECIFICATIONS

Wavelength (nm)		532±1						656.5±1	660±1
Operating mode		Passively							
Average power (mW) ¹		~60	1-40	1-120	1-150		150-500		1-10
Single pulse energy (μJ) ²		~1.4	1-40	1~30			30-60		1-5
Pulse duration (ns)		~0.4	~0.6	~0.8	~1.3	~5	~1.3	4	~15
Peak power (kW)		~3.5	1.66-66	1.25-37.5	0.7-23	0.2-6	23-46	7.5-15	0.06-0.33
Rep. rate (kHz)	Int ³	/	0.001-1	1-3	0.001-4		4-6		1-4
	Ext ⁴	/	0.001-1	1-3	0.001-4		4-6		1-4
	QCW ⁵	~40	/			5-20		5-12	
Power stability (rms, 4 hours ±3°C)		<3%, <2%, <1%							<5%, <3%, <2%
Transverse mode		TEM ₀₀							
M ²		<1. 3							<1. 5
Beam diameter at the aperture (mm)		~1.0							
Beam divergence, full angle (mrad)		<1. 5							
Polarization ratio		>100:1, 45 degrees polarization			>100:1, Vertical (Horizontal optional)			/	
Warm-up time (minutes)		<5							
Beam height from base plate (mm)		27.4							
Operating temperature (°C)		10-35							
Power supply (100-240VAC)		PSU-SR			PSU-H-FDA/PSU-H-LED				
Expected lifetime (hours)		>10000							

LASER HEAD ⁶	HEATSINK (optional TC-02-FS)	POWER SUPPLY (PSU-H-FDA) ⁷
 175(L)×60(W)×50(H) mm³, 1.0kg	 202(L)×110(W)×47.5(H) mm³, 1.25kg	 276.6(L)×145(W)×103.6(H) mm³, 2.3 kg
POWER SUPPLY (PSU-H-LED) ⁸	POWER SUPPLY (PSU-SR) ⁷	
 273.6 (L)×145(W)×106 (H) mm³, 2.3 kg	 188(L)×145(W)×83(H) mm³, 1.2kg	

- 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 or five 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%.