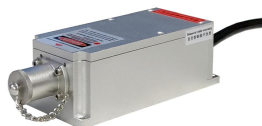




MPL-U series (530-700nm)



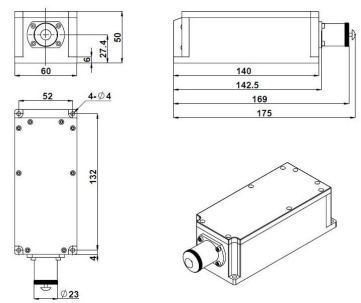
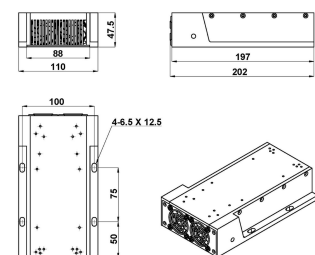
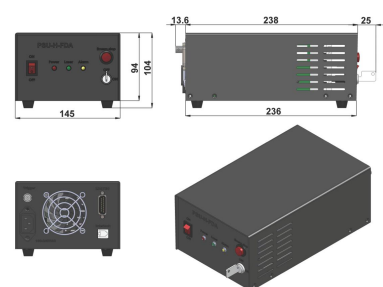
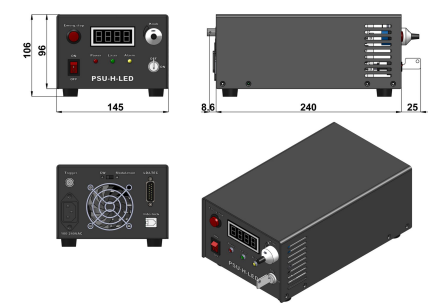
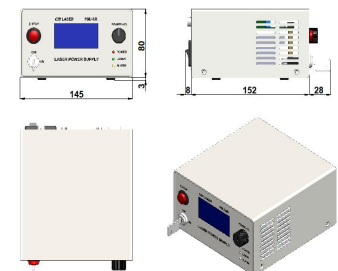
LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

All solid state Q-switched 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, experiments of generating 355nm, or 266nm laser, fiber communication, etc.



SPECIFICATIONS

Wavelength (nm)		532±1						656.5±1	660±1
Operating mode		Passively							
Max average power (mW) ¹		1-60	1-40	1-120	1-150		150-500		1-10
Single pulse energy (μJ) ²		0.025-1.4	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)		0.06-3.5	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	/	0.01-1.0	0.1-3.0	0.001-4		4-6		1-4
	Ext ⁴	/			0.001-4		4-6		1-4
	QCW ⁵	~40	/		5-20		5-12		2-5
Ave power stability (over 4 hours)		<3%, <2%, <1%						<5%, <3%, <2%	
Transverse mode		TEM ₀₀						Near 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	 220(L)×110(W)×47.5(H) mm³, 1.25 kg	 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 in this range.
- 3.One fixed value between 1-xxxkHz.
- 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 power.
- 8.Output power adjustable 10-100%.