

MPL-H series (1050-1600nm)



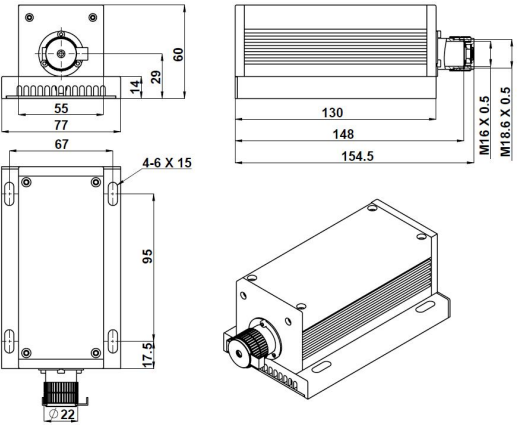
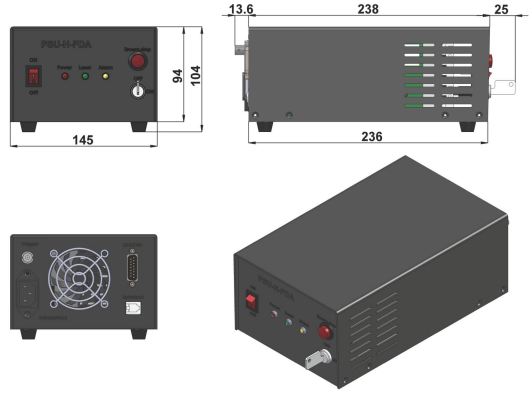
LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

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, fiber communication, etc.



SPECIFICATIONS

Wavelength (nm)		1053±1	1064±1		1313±1	1319±1	1573±1
Operating mode		Passively					
Max average power (mW) ¹		300-450	~400	500-1500	1-100	100-150	1-30
Single pulse energy (μJ) ²		30-50	~40	20-100	10-20	7~15	1-30
Pulse duration (ns)		~10	~1.5	~10	~18	~15	1-2
Peak power (kW)		3-5	~27	2-10	0.55-1.1	0.46-1	1-15
Rep. rate (kHz)	Int ³	0.001-1	0.001-4				0.001-1
	Ext ⁴	0.001-1	0.001-4				/
	QCW ⁵	2-5	5-30		5-20		/
Ave power stability (over 4 hours)		<3%, <2%, <1%					<5%, <3%
Transverse mode		TEM ₀₀					
M ²		<1.5					
Beam diameter at the aperture (mm)		~1.5					
Beam divergence, full angle (mrad)		<2. 0					
Polarization ratio		>100:1, Horizontal (Vertical optional)					
Warm-up time (minutes)		<5					
Beam height from base plate (mm)		29					
Operating temperature (°C)		10-35					
Power supply (100-240VAC)		PSU-H-FDA					
Expected lifetime (hours)		>10000					

LASER HEAD	POWER SUPPLY (PSU-H-FDA) ⁶
 154.5(L)×77(W)×60(H) mm³, 0.9 kg	 276.6(L)×145(W)×103.6(H) mm³, 2.3 kg

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-xxxxkHz.
4. External triggered.
5. The rep. rate is a free running value within this range.
6. Fixed output power.