



MPL-H series (500-1050nm)



LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

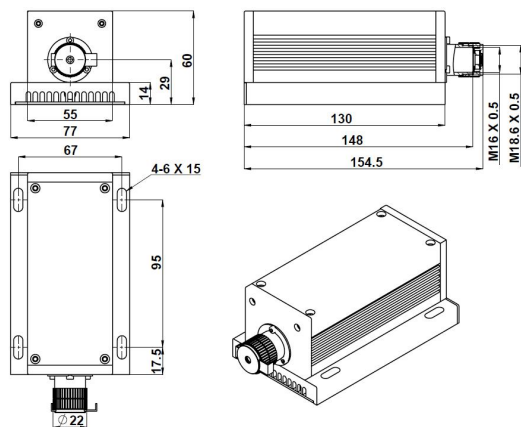
All solid state passively laser has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in industry (marking on the diamond or stone), teaching of nonlinear optics, fiber communication, etc.



SPECIFICATIONS

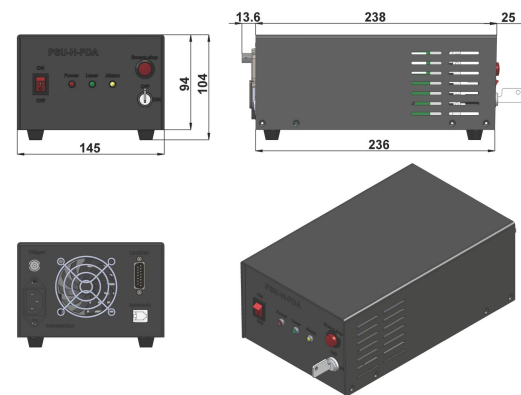
Wavelength (nm)		523.5±1	526.5±1	532±1	656.5±1	660±1	1047±1
Operating mode		Passively					
Average power (mW) ¹		1-150	1-150	100-150	1-10	1-300	
Single pulse energy (μJ) ²		1-60		10-30	2-5	50-150	
Pulse duration (ns)		~4		3-5	~15	~6	
Peak power (kW)		2.5-15		3-6	0.1-0.3	8.4-25	
Rep. rate	Int ³	1kHz		1Hz-4kHz	1-2kHz	1Hz-1kHz	
	Ext ⁴	1kHz		1Hz-4kHz	1-2kHz	1Hz-1kHz	
	QCW ⁵	2-5kHz		5-15kHz	2-5kHz	2-5kHz	
Power stability (rms, 4 hours ±3°C)		<5%, <3%, <2%		<3%, <2%, <1%	<5%, <3%, <2%		
Transverse mode		TEM ₀₀					
M ²		<1.5		<1.3	<1.5		
Beam diameter at the aperture (mm)		~0.8					
Beam divergence, full angle (mrad)		<2.0		<1.5	<2.0		
Polarization ratio		>100:1, Vertical (Horizontal optional)		>100:1, Horizontal (Vertical optional)	>100:1, Vertical (Horizontal optional)		>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



154.5(L)×77(W)×60(H) mm³, 0.9kg

POWER SUPPLY⁶



276.6(L)×145(W)×103.6(H) mm³, 2.3kg

- 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 Fixed output energy.