



MPL-S series (1041-1070nm)

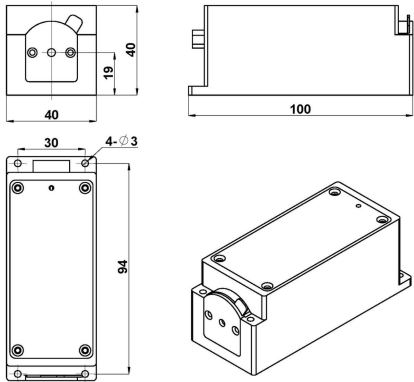
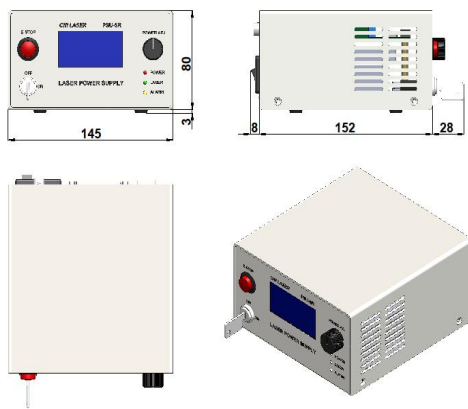
LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

All solid state passively laser has the features of high peak power and short pulse duration, which is widely used in scientific research, laser micromaching, laser radar ranging, environment monitoring, laser ultrasonic monitoring and LIBS (Laser Induced Breakdown Spectroscopy) etc.



SPECIFICATIONS

Model		MPL-S-1064-A	MPL-S-1064-B				MPL-S-1064-C	
Wavelength (nm)		1064±1						
Operating mode		Passively						
Average power (mW) ¹		1-50	1-5	1-8	1-25	1-50	1-200	
Single pulse energy (μJ) ²		1-50	1-10	1-8	1~5	1-70	1-40	
Pulse duration (ns)		~0.4	~0.6			~0.8		
Peak power (kW)		2.5-125	1.66-16.6	1.66-13.3	1.66-8.3	1.25-62.5	1.25-50	
Rep. rate (kHz)	Int ³	0.001-1	0.001-0.5	0.6-1	1-5	0.001-1	1-5	
	Ext ⁴	0.001-1	0.001-0.5	0.6-1	1-5	0.001-1	1-5	
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						
Polarization ratio		100:1, Horizontal (Vertical optional)						
Pointing stability (μrad) (over 2 hours after warm-up and ±3°C)		<50						
Pointing stability over temperature (μrad/°C)		<8						
Beam height from base plate (mm)		19						
Operating temperature (°C)		10-35						
Power supply (100-240VAC)		PSU-SR						
Expected lifetime (hours)		>10000						

LASER HEAD	POWER SUPPLY ⁵
 100(L)×40(W) ×40(H) mm³, 0.36kg	 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 Fixed output energy.