



**MPL-S-1064**

### 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) <sup>1</sup>		1-50	1-5	1-8	1-25	1-50	1-200
Single pulse energy (μJ) <sup>2</sup>		1-50	1-10	1-8	1~5	1-70	1-40
Pulse duration (ns)		~0.5	~0.6			~0.7	
Peak power (kW)		2-100	1.7-16.7	1.7-13.3	1.7-8.3	1.4-100	1.4-57.1
Rep. rate	Int <sup>3</sup>	1Hz-1kHz	1-500Hz	600-1000Hz	1-4kHz	1Hz-1kHz	1-4kHz
	Ext <sup>4</sup>	1Hz-1kHz	1-500Hz	600-1000Hz	1-4kHz	1Hz-1kHz	1-4kHz
Power stability (rms, 4 hours ±3°C)		<5%, <3%, <2%					
Transverse mode		TEM <sub>00</sub>					
M <sup>2</sup>		<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 <sup>5</sup>
<p style="text-align: center;">100(L)×40(W) ×40(H) mm<sup>3</sup>, 0.36kg</p>	<p style="text-align: center;">188(L) ×145(W) ×83(H) mm<sup>3</sup>, 1.2kg</p>

- 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.