



**MPL-S-1064A-HP**

**HIGH ENERGY DIODE PUMPED ALL-SOLID-STATE PASSIVELY LASER**

All-solid-state passive lasers, which feature high peak power and short pulse duration, are widely used in scientific research, laser micromachining, lidar ranging, environmental monitoring, laser ultrasonic testing, and LIBS (Laser-Induced Breakdown Spectroscopy).



**SPECIFICATIONS**

Wavelength (nm)	1064±1
Operating mode	Passively
Average power (mW) <sup>1</sup>	200-4000
Single pulse energy (μJ)	2-40
Pulse duration (ns)	~0.5
Peak power (kW)	4-80
Rep. rate <sup>2</sup>	~100kHz
Power stability (rms, 4 hours ±3°C)	<5%, <3%
Transverse mode	TEM <sub>00</sub>
Beam diameter at the aperture (mm)	~1.5
Beam divergence, full angle (mrad)	<1.5
Warm-up time (minutes)	<5
Beam height from base plate (mm)	45
Cooled method	Fan cooled
Operating temperature (°C)	10-35
Power supply (100-240VAC)	PSU-S-HP
Expected lifetime (hours)	>10000

LASER HEAD <sup>3</sup>	LASER HEAD (Fan cooled)	POWER SUPPLY <sup>4</sup>
<p style="text-align: center;">375(L)×237(W)×82(H) mm<sup>3</sup>, 10.5kg</p>	<p style="text-align: center;">406(L)×370(W)×150(H) mm<sup>3</sup>, 21.0kg</p>	<p style="text-align: center;">318(L)×190(W)×114(H) mm<sup>3</sup>, 3.2kg</p>

1 Average power (mW)= Single pulse energy (μJ)\* Rep. rate(kHz)

2 The rep.rate is a free running value.

3 The laser head needs to be used on a heat sink with good heat dissipation.

4 Output power adjustable 10-100%; RS232 control optional.