



MPL-H series (1051-1600nm)



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)	1053±1	1313±1	1319±1	1573±1
Operating mode	Passively			
Average power (mW) ¹	300-450	1-100	100-150	1-30
Single pulse energy (μJ) ²	30-50	10-20	7~15	1-30
Pulse duration (ns)	~10	~18	~15	1-2
Peak power (kW)	3-5	0.6-1.1	0.5-1	1-15
Rep. rate	Int ³	1Hz-1kHz	1Hz-4kHz	1Hz-1kHz
	Ext ⁴	1Hz-1kHz	1Hz-4kHz	/
	QCW ⁵	2-5kHz	5-20kHz	/
Power stability (rms, 4 hours ±3°C)	<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 ⁶
<p style="text-align: center;">154.5(L)×77(W)×60(H) mm³, 0.9kg</p>	<p style="text-align: center;">276.6(L)×145(W)×103.6(H) mm³, 2.3kg</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 discrete values within the range.
- 4 External triggered.
- 5 The rep.rate is a free running value within this range.
- 6 Fixed output energy.