



MPL-U-xxx-SU series (1300-1500nm)

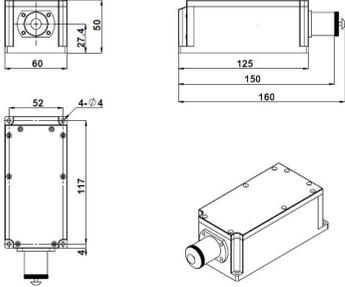
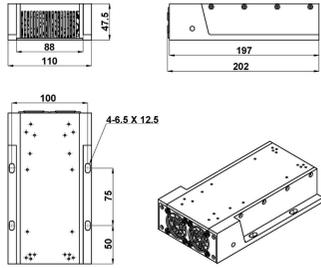
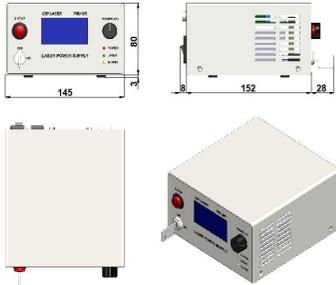
LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

All solid state passively laser has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in marking, carving, measure, research and so on.



SPECIFICATIONS

Wavelength (nm)	1313±1	1319±1	1444±1
Operating mode	Passively		
Average power (mW) ¹	1-100	1-150	1-10
Single pulse energy (μJ) ²	1-20	1-15	1-3
Pulse duration (ns)	~15		~24
Peak power (kW)	0.1-1.3	0.1-1.0	0.04-0.12
Rep. rate	Int ³	1Hz-4kHz	/
	Ext ⁴	1Hz-4kHz	/
	QCW ⁵	5-20kHz	4-7kHz
Power stability (rms, 4 hours ±3°C)	<5%, <3%, <2%		
Transverse mode	TEM ₀₀		
M ²	<2.0		
Beam diameter at the aperture (mm)	~1.2		
Beam divergence, full angle (mrad)	<2.0		
Warm-up time (minutes)	<5		
Beam height from base plate (mm)	27.4		
Operating temperature (°C)	10-35		
Power supply (100-240VAC)	PSU-H-FDA/ PSU-SR		
Expected lifetime (hours)	>10000		

LASER HEAD ⁶	HEATSINK (optional TC-02-FS)
 <p data-bbox="533 608 786 628">160(L)×60(W)×50(H) mm³, 0.9kg</p>	 <p data-bbox="1458 608 1738 628">202(L)×110(W)×47.5(H) mm³, 1.25kg</p>
POWER SUPPLY (PSU-H-FDA) ⁷	POWER SUPPLY (PSU-SR) ⁸
 <p data-bbox="510 1054 808 1075">276.6(L)×145(W)×103.6(H) mm³, 2.3kg</p>	 <p data-bbox="1464 1054 1731 1075">188(L)×145(W)×83(H) mm³, 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 The rep.rate is a free running value within this range.
- 6 The laser head needs to be used on a heat sink with good heat dissipation.
- 7 Fixed output energy.
- 8 In QCW mode, the output power is adjustable from 10% to 100%.