



MPL-U-1064-SU

LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

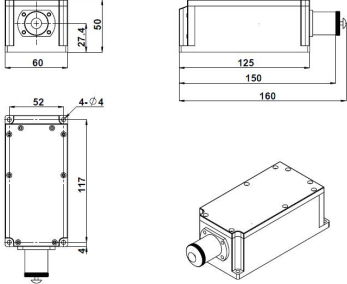
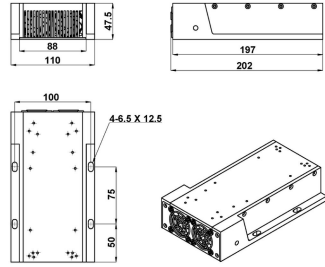
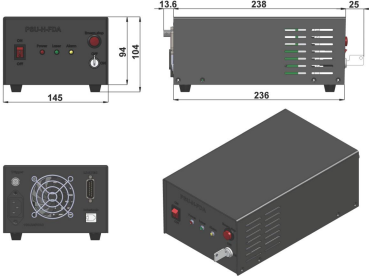
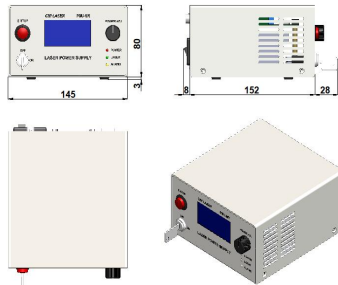
All solid state passively laser has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in marking, carving, measure, research and so on.



SPECIFICATIONS



Wavelength (nm)		1064±1
Operating mode		Passively
Average power (mW) ¹		1500-2000
Single pulse energy (μJ) ²		100-200
Pulse duration (ns)		~5
Peak power (kW)		20-40
Rep. rate	Int ³	1Hz-4kHz
	Ext ⁴	1Hz-4kHz
	QCW ⁵	5-15kHz
Power stability (rms, 4 hours ±3°C)		<3%, <2%, <1%
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 HEAD⁶  160(L)×60(W)×50(H) mm³, 0.9kg	HEATSINK (optional TC-02-FS)  202(L)×110(W)×47.5(H) mm³, 1.25kg
POWER SUPPLY (PSU-H-FDA)⁷  276.6(L)×145(W)×103.6(H) mm³, 2.3kg	POWER SUPPLY (PSU-SR)⁸  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 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%.