



MPL-U-532A

LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

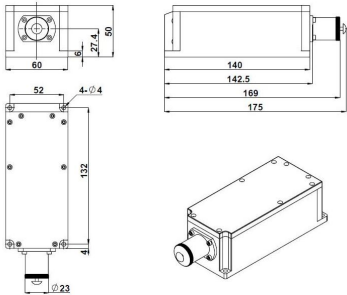
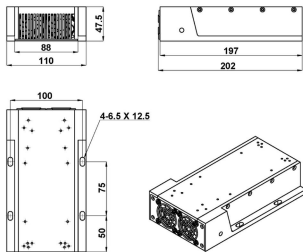
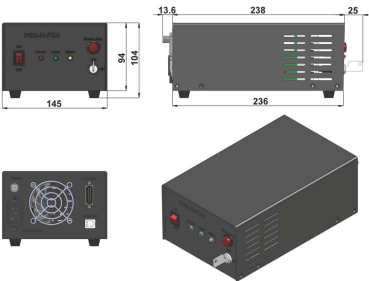
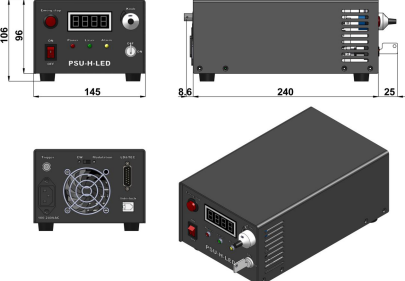


All solid state passively laser has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in industry (marking on the diamond or stone), teaching of nonlinear optics, fiber communication, etc.



SPECIFICATIONS

Wavelength (nm)		532±1
Operating mode		Passively
Average power (mW) ¹		150-500
Single pulse energy (μJ) ²		30-60
Pulse duration (ns)		~1.3
Peak power (kW)		23-46
Rep. rate	Int ³	4-6kHz
	Ext ⁴	4-6kHz
	QCW ⁵	5-12kHz
Power stability (rms, 4 hours ±3°C)		<3%, <2%, <1%
Transverse mode		TEM ₀₀
M ²		<1.3
Beam diameter at the aperture (mm)		~1.0
Beam divergence, full angle (mrad)		<1.5
Polarization ratio		>100:1, Vertical (Horizontal optional)
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-H-LED
Expected lifetime (hours)		>10000

LASER HEAD ⁶	HEATSINK (optional TC-02-FS)
 175(L)×60(W)×50(H) mm³, 1.0kg	 202(L)×110(W)×47.5(H) mm³, 1.25kg
POWER SUPPLY (PSU-H-FDA) ⁷	POWER SUPPLY (PSU-H-LED) ⁸
 276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg	 273.6 (L) ×145(W) ×106 (H) mm³, 2.3 kg

- 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 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%.