



MPL-S series (900-1040nm)

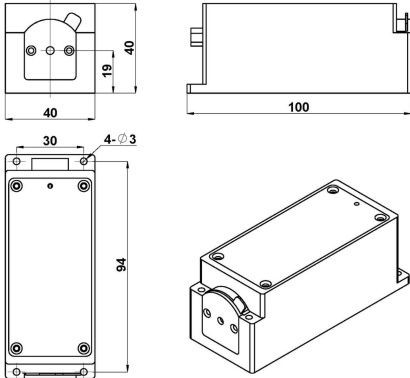
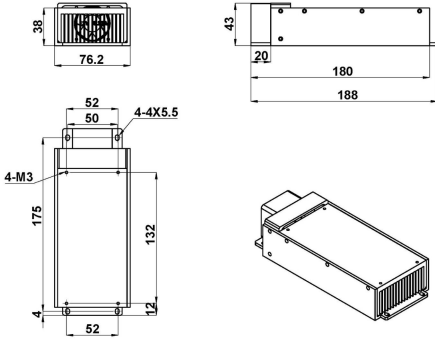
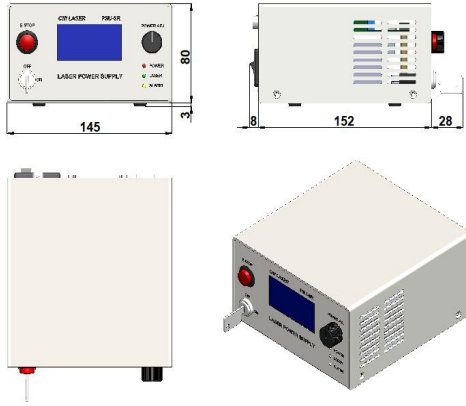
LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

All solid state passively laser has the features of high peak power and short pulse duration, which is widely used in scientific research, laser micromaching, laser radar ranging, environment monitoring, laser ultrasonic monitoring and LIBS (Laser Induced Breakdown Spectroscopy) etc.



SPECIFICATIONS

Wavelength (nm)		946±1		1030±1	
Operating mode		Passively			
Average power (mW) ¹		1-50	1-100	1-300	1-450
Single pulse energy (μJ) ²		1-50	1-25	1-70 ³	1-50
Pulse duration (ns)		~2.6	~4	~0.6	
Peak power (kW)		27	6.3	1.6-116.6	1.6-83.3
Rep. rate (kHz)	Int ⁴	0.001-1	1-4	/	
	Ext ⁵	0.001-1	1-4	/	
	QCW ⁶	/		~4	8-10
Power stability (rms, 4 hours ±3°C)		<5%, <3%, <2%			
Transverse mode		TEM ₀₀			
M ²		<1.5			
Beam diameter at the aperture (mm)		~1.0			
Beam divergence, full angle (mrad)		<1.5			
Polarization ratio		/			
Pointing stability (μrad) (over 2 hours after warm-up and ±3°C)		<50			
Pointing stability over temperature (μrad/°C)		<8			
Warm-up time (minutes)		<10			
Beam height from base plate (mm)		19			
Operating temperature (°C)		10-35			
Power supply (100-240VAC)		PSU-SR			
Expected lifetime (hours)		>10000			

LASER HEAD	HEATSINK (optional TC-04-FS)	POWER SUPPLY ⁷
 100(L)×40(W)×40(H) mm³, 0.36kg	 188(L)×76.2(W)×43(H) mm³, 0.65kg	 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 laser head needs to be used on a heat sink with good heat dissipation.

4 The frequency is selectable from one or five discrete values within the range.

5 External triggered.

6 The rep.rate is a free running value within this range.

7 Fixed output energy.