



MPL-T series (500-1100nm)

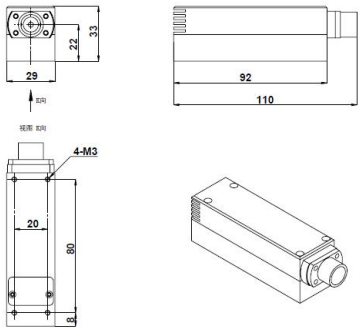
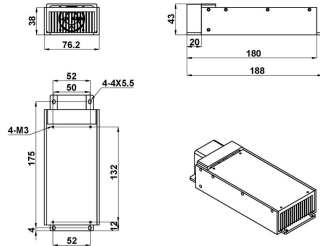
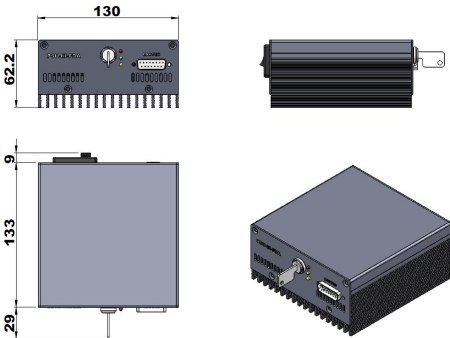
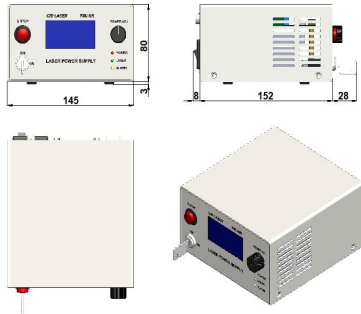
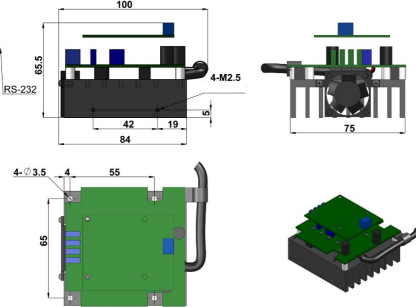
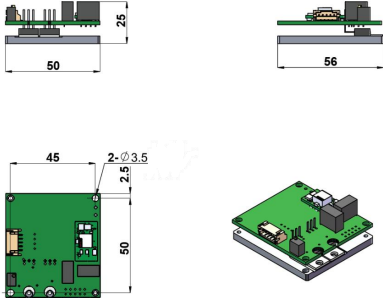
LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

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)		532±1				1064±1						
Operating mode		Passively										
Average power (mW) ¹		~3	~3	~30	~180	~8	~6	~40	~100	~200	~350	~500
Single pulse energy (μJ) ²		1-3	1-5	1-5	1-10	1-8	1-10	1-4	1-2.5	1-20	1-35	1-100
Pulse duration (ns)		~0.5		~1.3	3-5	~0.5				~1.5	3-5	~4 (~1.5 optional)
Peak power (kW)		2-6	2-10	0.8-4	0.3-2	2-16	2-20	2-8	2-5	0.6-13	0.3-7	0.2-25
Rep. rate (kHz)	Int ³	0.7-1	0.001-0.6	0.001-4		0.7-1	0.001-0.6	/		0.001-4		0.001-3
	Ext ⁴	0.7-1	0.001-0.6	0.001-4		0.7-1	0.001-0.6	/		0.001-4		0.001-3
	QCW ⁵	/		5-15		/		4-10	10-40	5-20		4-6
Power stability (rms, 4 hours ±3°C)		<3%, <2%, <1%										
Transverse mode		TEM ₀₀										
M ²		<1.5										
Beam diameter at the aperture (mm)		~1.2										
Beam divergence, full angle (mrad)		<1.5										
Polarization ratio		>100:1, Vertical (Horizontal optional)				>100:1, Horizontal (Vertical optional)						
Warm-up time (minutes)		<5										
Beam height from base plate (mm)		22										
Operating temperature (°C)		10-35										
Power supply (100-240VAC)		PSU-SR		PSU-III-FDA		PSU-SR				PSU-III-FDA		/
Power supply (VDC)		/		PSU-III-OEM-97 (5V/5A)		/				PSU-III-OEM-97 (5V/5A)		PSU-T-OEM-I (12V/7A)
Expected lifetime (hours)		>10000										

LASER HEAD ⁶	HEATSINK (optional TC-04-FS)	POWER SUPPLY (PSU-III-FDA) ⁷
 110(L)×29(W)×33(H) mm³, 0.34kg	 188(L)×76.2(W)×43(H) mm³, 0.65kg	 171 (L) ×130(W) ×62.2 (H) mm³, 1.2kg
POWER SUPPLY (PSU-SR) ⁷	DRIVER (PSU-III-OEM-97) ⁷	DRIVER (PSU-T-OEM-I) ⁷
 188(L) ×145(W) ×83(H) mm³, 1.2kg	 100(L) ×75(W) ×65.5 (H) mm³, 0.23kg	 56(L) ×50(W) ×25 (H) mm³, 0.07kg

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.