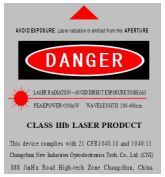
MPL-T series (500-1100nm)

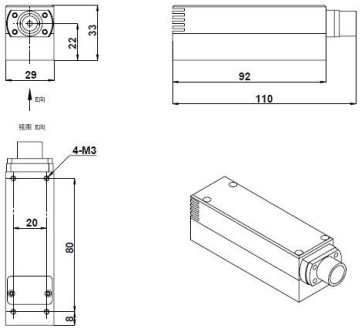
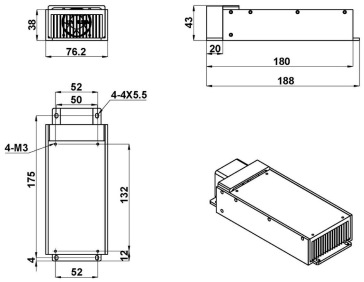
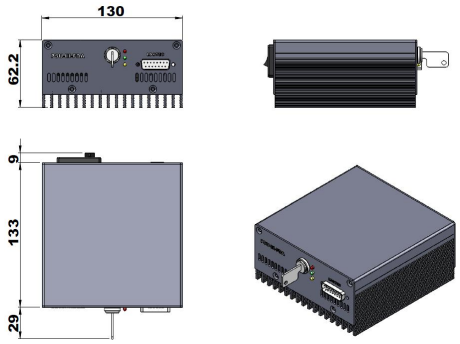
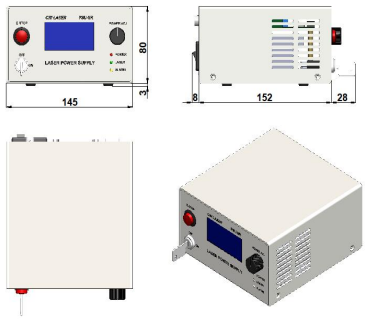
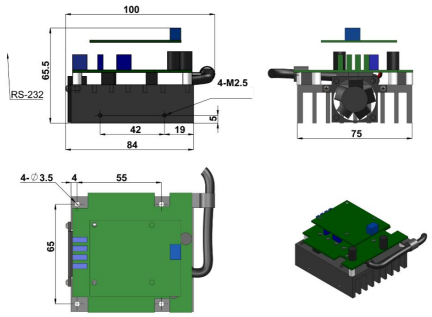
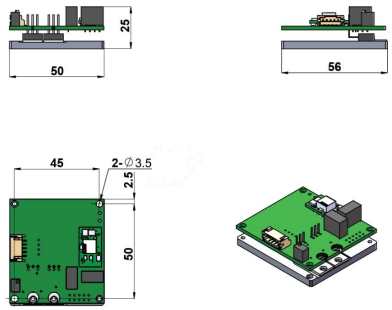


LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

All solid state Q-switched 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									
Max average power (mW)[1]		~3mW	~3mW	~30mW	~180mW	~8mW	~6mW	~40mW	~100mW	~200mW	~350mW	~500mW
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	0.25-25
Rep. rate (kHz)	Int[3]	0.7-1	0.1-0.6	0.001-4		0.7-1	0.1-0.6	/		0.001-4		0.001-3
	Ext[4]	/		0.001-4		/				0.001-4		0.001-3
	QCW[5]	/		5-15		/		4-10	10-40	5-20		4-6
Ave power stability (over 4 hours)		<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 (℃)		10-35										
Power supply(100-240VAC)		PSU-SR		PSU-III-FDA		PSU-SR				PSU-III-FDA		/
Operating voltage (VDC)		/		PSU-III-OEM-97 (5V5A)		/				PSU-III-OEM-97 (5V5A)		PSU-T-OEM-I (12V7A)
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, 0.65 kg	171 (L) ×130(W) ×62.2 (H) mm³, 1.2 kg
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, 0.23 kg	56(L) ×50(W) ×25 (H) mm³, 0.07 kg

1.Average power (mW)= Single pulse energy (μJ)* Rep. rate(kHz).

2.Any energy level can be selected in this range.

3.One fixed value between 1-xxxkHz.

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 power.