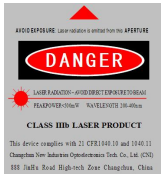
MPL-T series (1100-1600nm)

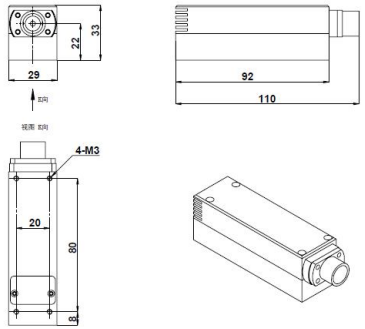
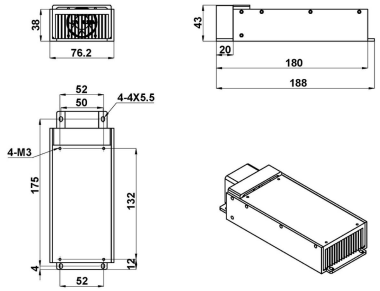
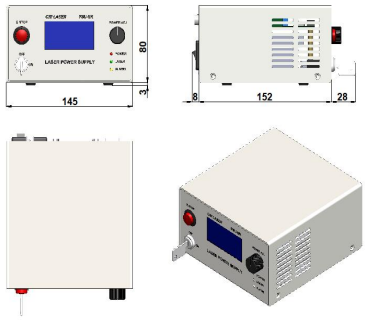
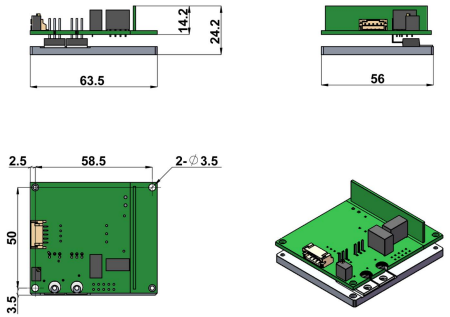


LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

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)	1535±2				
Operating mode	Q-switched pulsed laser				
Max average power (mW)[1]	0.1-1	0.2-2	0.3-3	0.4-4mW	40mW
Single pulse energy (μJ)[2]	100	200	300	400	40
Pulse duration (ns)	3-6				3-5
Peak power (kW)	25	50	70	80	10
Rep. rate (Hz)[3]	1-10				1000
Energy stability (over 4 hours)	<5%				
Transverse mode	TEM_{00}				
Beam divergence, full angle (mrad)	≤12				≤15
Warm-up time (minutes)	<5				
Beam height from base plate (mm)	22				
Operating temperature (℃)	10-35				
Power supply(100-240VAC)	PSU-SR				
Operating voltage (VDC)	PSU-T-OEM-II (5V5A)				
Expected lifetime (hours)	$>10^7$ times irradiate		$>2\times10^7$ times irradiate	$>10^7$ times irradiate	

LASER HEAD[4]	HEATSINK(OPTIONAL TC-04-FS)
	
110(L)×29(W) ×33(H) mm³, 0.34kg	**188(L)×76.2(W)×43(H) mm³, 0.65 kg**
POWER SUPPLY (PSU-SR)[5]	DRIVER (PSU-T-OEM-II)[5]
	
188(L) ×145(W) ×83(H) mm³, 1.2kg	**63.5(L) ×56(W) ×24.2(H) mm³, 0.07kg**

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

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

3.External triggered.

4.The laser head needs to be used on a heat sink with good heat dissipation.

5.Fixed output power.