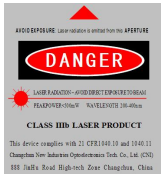
MPL-S-1064-HF

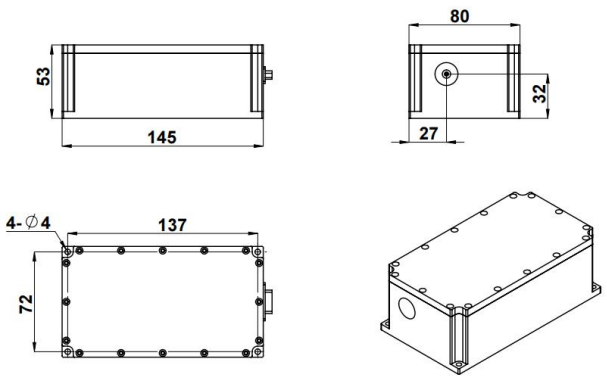
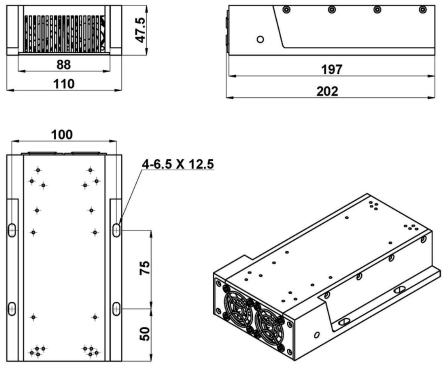
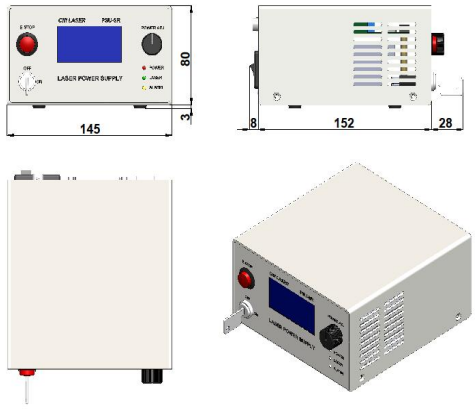
LD PUMPED ALL-SOLID-STATE PASSIVELY LASER



The all-solid-state passively Q-switched laser, known for its high repetition rate and short pulse duration, is widely used in scientific research, material processing, photoacoustic imaging, fluorescence lifetime imaging, LIDAR, and LIBS (Laser-Induced Breakdown Spectroscopy).

SPECIFICATIONS

Wavelength (nm)		1064±1			
Operating mode		Passively			
Average power (mW)[1,2]		~75	~180	~270	~300
Single pulse energy (μJ)		~15	~18		~30
Pulse duration (ns)		~1	~0.9		~0.5
Peak power (kW)		~15	~20		~60
Rep. rate	Int[3]	5kHz	10kHz	15kHz	10kHz
	Ext[4]	5kHz	10kHz	15kHz	10kHz
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			
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)		32			
Operating temperature (°C)		10-35			
Power supply (100-240VAC)		PSU-SR			
Expected lifetime (hours)		>10000			

LASER HEAD[5]	HEATSINK (optional TC-02-FS)	POWER SUPPLY[6]
		
145(L)×80(W)×53(H) mm³, 1.15kg	202(L)×110(W)×47.5(H) mm³, 1.25kg	188(L)×145(W)×83(H) mm³, 1.2kg

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

2 This specification varies within this range from one device to another.

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

4 External triggered.

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

6 Fixed output energy.