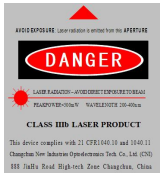
MSL-FN series (401-500nm)

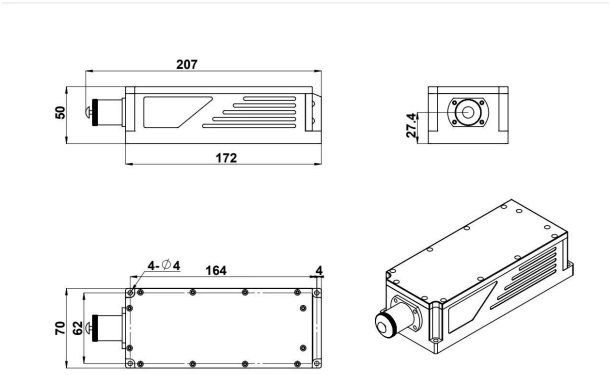
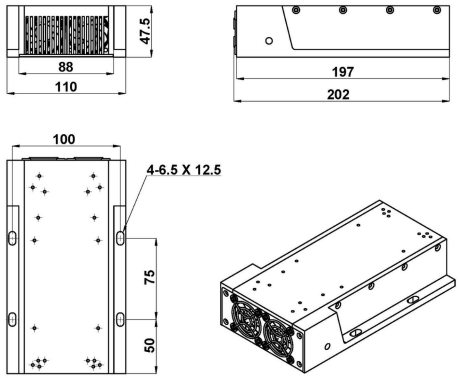
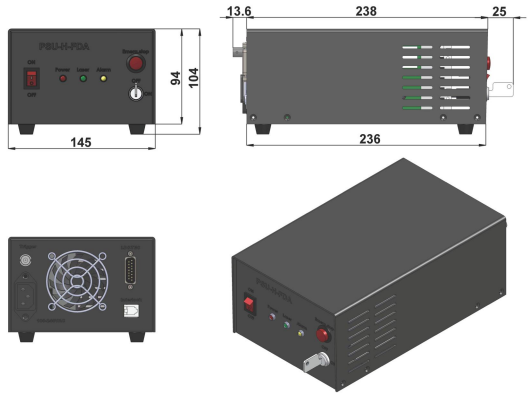
SINGLE LONGITUDINAL MODE LASER

All-solid-state, single-longitudinal-mode laser features an ultra-compact design, long lifetime, and easy operation, It is used in DNA sequencing, flow cytometry, cell sorting, optical instruments, spectrum analysis, interference, measurement, holography, and physics experiments, etc.



SPECIFICATIONS

Wavelength (nm)	457±1	473±1
Output power (mW)[1]	1-350	100-300
Power stability (rms, 4 hours ±3°C)	<3%, <2%, (<1% optional)	<3%, <2%
Transverse mode	TEM_{00}	
Longitudinal mode	Single	
Operating mode	CW	
Spectral line width (nm)	<1MHz	
Coherent length (m)	>50	
Noise of amplitude (rms, 20Hz-20MHz)	<1%, <0.5%	
M^2	<1.2	
Beam diameter at the aperture ($1/e^2$, mm)	<2.0	
Beam divergence, full angle (mrad)	<1.2	
Polarization ratio	>100:1, Vertical (Horizontal optional)	
Warm-up time (minutes)	<5	
Pointing stability (urad) (over 2 hours after warm-up and ±3°C)	<50	
Pointing stability over temperature (urad /°C)	<8	
Frequency shift (MHz) (over ±2°C and 8hrs) (optional)	<±200	
Frequency shift with temp (MHz/°C) (optional)	<200	
Beam height from base plate (mm)	27.4	
Laser head consumption (W)	15 (typical) , <25 (40°C)	
Operating temperature (°C)	10-35	
Power supply (100-240VAC)	PSU-H-FDA	
Expected lifetime (hours)	>10000	

LASER HEAD[2]	HEATSINK (optional TC-02-FS)	POWER SUPPLY (PSU-H-FDA)[3]
		
207(L)×70(W)×50(H) mm³, 1.5 kg	**202(L)×110(W)×47.5(H) mm³, 1.25 kg**	**276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg**

1 Any power level can be selected in this range.

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

3 Fixed output power.