



MSL-W series

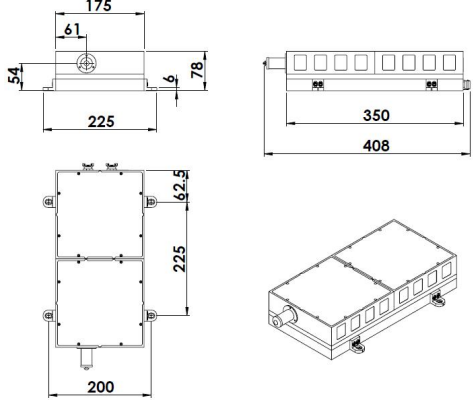
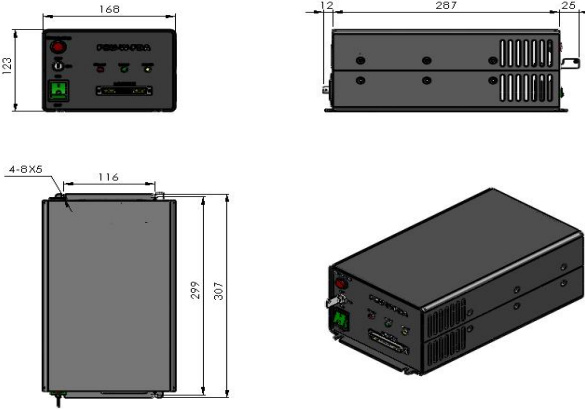
SINGLE LONGITUDINAL MODE LASER

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)	588±1	589±1	671±1
Output power (mW) ¹	200-500	200-500	500-2500
Power stability (rms, 4 hours ±3°C)	<3%, <2%		
Transverse mode	TEM ₀₀		
Longitudinal mode	Single		
Operating mode	CW		
Spectral line width (nm)	<0.00001		
Coherent length (m)	>50		
Noise of amplitude (rms, 20Hz-20MHz)	<1%, <0.5%		
M ²	<1.5		
Beam diameter at the aperture (1/e ² , mm)	<3.0		
Beam divergence, full angle (mrad)	<1.5		
Polarization ratio	>100:1, Horizontal (Vertical optional)		
Warm-up time (minutes)	<20		
Pointing stability (urad) (over 2 hours after warm-up and ±3°C)	<50		
Pointing stability over temperature (urad/°C)	<8		
Beam height from base plate (mm)	58		
Cooled method (Water cooled)	WCH-580		
Operating temperature (°C)	20-30		
Power supply (90-264VAC)	PSU-W-FDA		
Expected lifetime (hours)	>10000		

LASER HEAD ²	POWER SUPPLY (PSU-W-FDA) ³	Water Chiller (WCH-580)
 408(L) × 225(W) × 78(H) mm³, 5.7kg	 307(L) × 168(W) × 123(H) mm³, 4.5 kg	 253.2(L) × 363.8(W) × 240.6(H) mm³, 11.0 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.