

## 633nm/775nm Frequency Swept Laser

Precilasers' swept frequency 633nm/775nm laser can achieve ultra-wide range of non-mode-hopping linear frequency sweeping. It has the advantages of full digital, high linearity, high power, and larger frequency hopping range. It is used in industrial precision measurement, interferometer and other fields.

### Features

- Narrow Linewidth
- Tunable, Linear Polarization
- Active Power Stabilization
- Never Mode-hop
- Large Frequency Hopping Range

### Applications

- Precision Measurement
- Interferometer



## Specification

Partnumber	FL-SF-XX-SWT (Wavelength can be customized)					
Center Wavelength	632.80nm			775nm		
No Mode Hopping Frequency Sweep Range	>80GHz	>120GHz	>200GHz	>100GHz	>200GHz	>350GHz
Output Power	>10mW			>10mW		
Single Step Adjustment Accuracy	< 1MHz					
Single Step Length	10MHz-10GHz					
Single Step Interval	20ms-400ms					
Power Adjustment Range	10-100%					
Linewidth (100 us integration)	< 200KHz			< 400KHz		
Long Term Power Stability	<0.75% @3hrs, RMS					
Output Mode	Single-mode polarization-maintaining fiber output, FC/APC connector					
Beam Quality	TEM <sub>00</sub> , M <sup>2</sup> <1.1					
Polarization Extinction Ratio	>20dB, Linear, Vertical					
Cooling	Air Cooling					

## Warm-up Time

Cold Start	<2 Hours
From Standby	<15 minutes

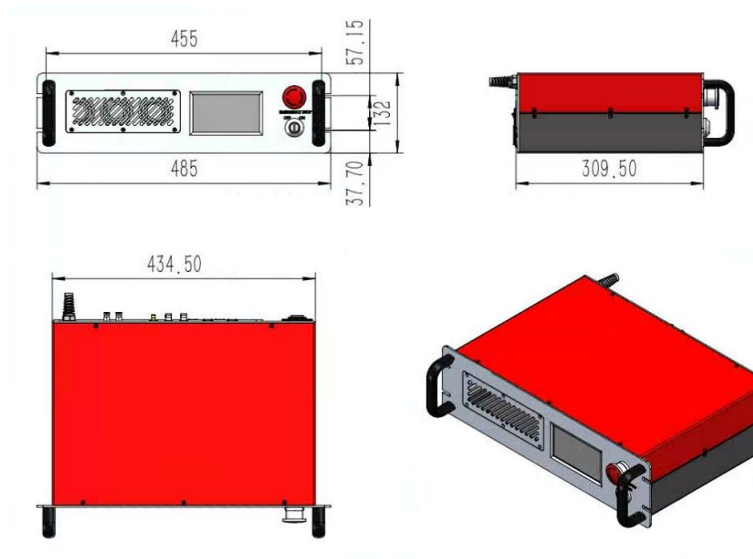
## Dimensions & Weights

Laser Controller Dimensions	≤485mm x 309.5mm x 132mm
Laser Controller Weight	≤20kg
Output Fiber Length	> 2m (Customizable)

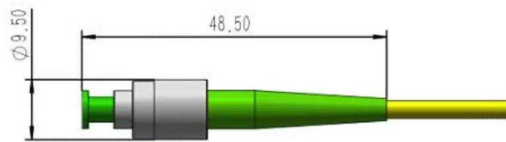
## Operating Environment & Power Supply

Temperature (No condensation conditions)	15-30 °C (Air Cooling)
Power Supply	100V-240V, AC, 50/60Hz
Power Consumption	<100W
Communication	RS422

## ❖ Product Dimensions

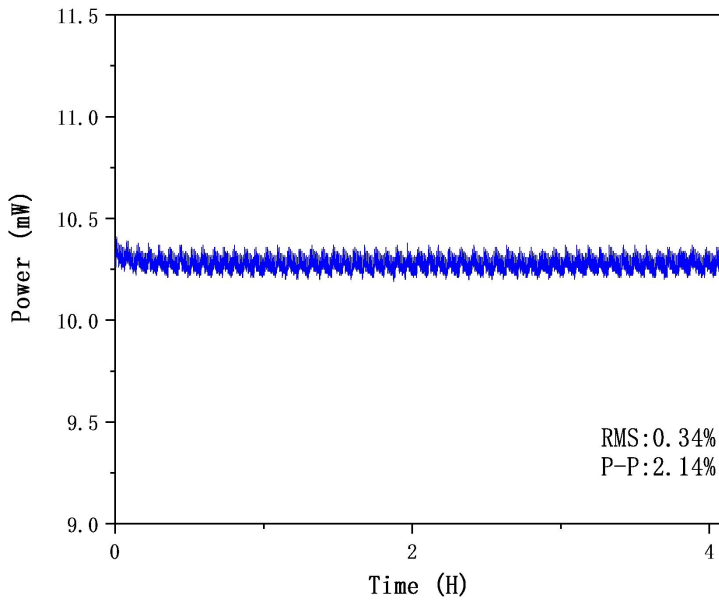


Chassis Dimensions

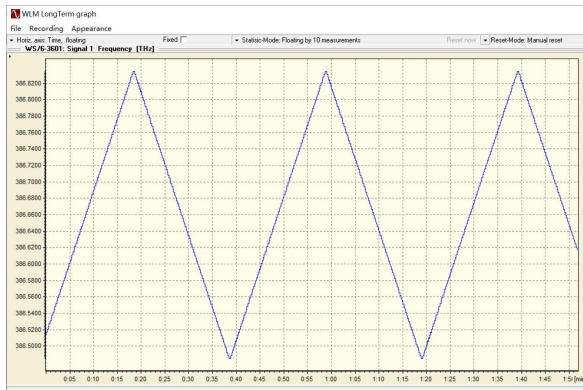


FC/APC Connector Dimensions

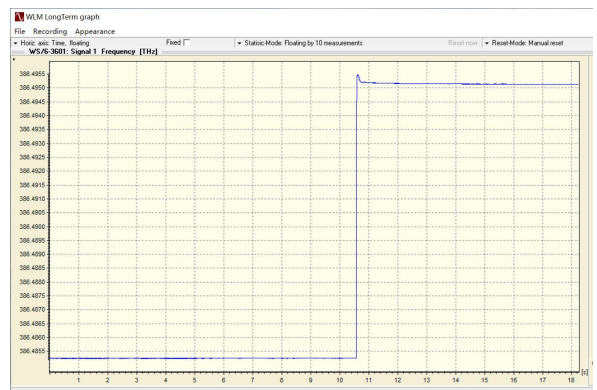
❖ Performance (typical value)



Continuous frequency sweep output power stability



Continuous frequency sweep 350GHz




Laser single step frequency hopping 10GHz



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⚠ Laser Hazard

Visible or invisible laser radiation, avoid eye or skin exposure to direct, reflected or filtered radiation.  
**CLASS 4 Laser Products**

