

Narrow Linewidth Green Laser

Based on single frequency seed laser, fiber laser amplification and high efficiency frequency conversion technology, Precilasers can provide narrow linewidth 532nm laser with high frequency stability, long lifetime and excellent beam quality.

Features

- Long life
- High Power
- Narrow Linewidth
- Excellent Beam Quality
- Never Mode-hop

Applications

- Precision Measurement
- Interference Exposure

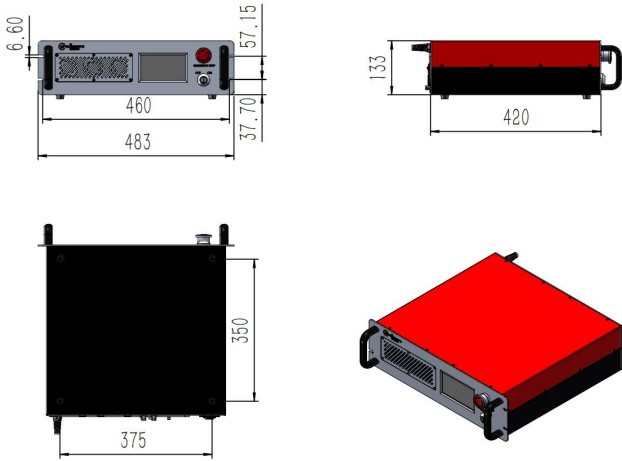


Specification		
Partnumber	FL-SF-X-Y ⁽¹⁾ -CW	
Central Wavelength Range	532.00nm	
Common Wavelengths	532nm	
Linewidth ⁽²⁾ (100 us integration)	<50kHz	
Operation Mode	Continuous	
Output Power	> 5W	> 10W
Beam Waist Diameter	0.6±0.2 mm	
Beam Waist Location Relative to Output Window (m)	Output window within ±0.3m	
Beam Divergence (Full Angle)	<0.8mrad	
Beam Ellipticity	0.9-1.1	
Pointing Stability (μrad)	<10μrad	
Beam Quality	TEM ₀₀ , M ² <1.1	
Polarization	Linear, Vertical±3°, >20dB	
Power Stability	<0.75% @3hours, RMS	
Relative Intensity Noise	<0.06%(RMS, 10Hz-10MHz integration)	
Spectral Purity	>99.9%	
Cooling	Air Cooling/Water cooling	
Warm-up Time		
Cold Start	<2 Houes	
From Standby	<30 minutes	
Dimensions & Weights		
Laser Head Dimensions	364.5mm x 90mm x 70mm	
Laser Controller Dimensions	483mm x 420mm x 133mm(Air Cooling) 483mm x 422mm x 105mm(Water Cooling)	
Chiller Dimensions	≤580mm x 290mm x 520mm	
Cable Length between Controller and Head	>1.5m	
Operating Environment & Power Supply		
Temperature	15-30 °C	15-35 °C
Power Supply	100V-240V, AC, 50/60Hz	
Communication	RS422	

(1) X is the laser output wavelength in nm, Y is the laser output power in W. For example, a 10W 532nm laser is model FL-SF-532-10-CW.

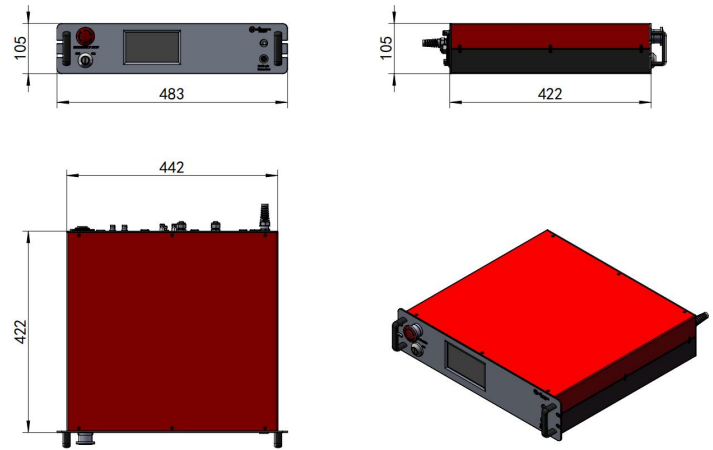
**Air Cooling Version Dimensions
(Power: 20W)**

Laser Controller

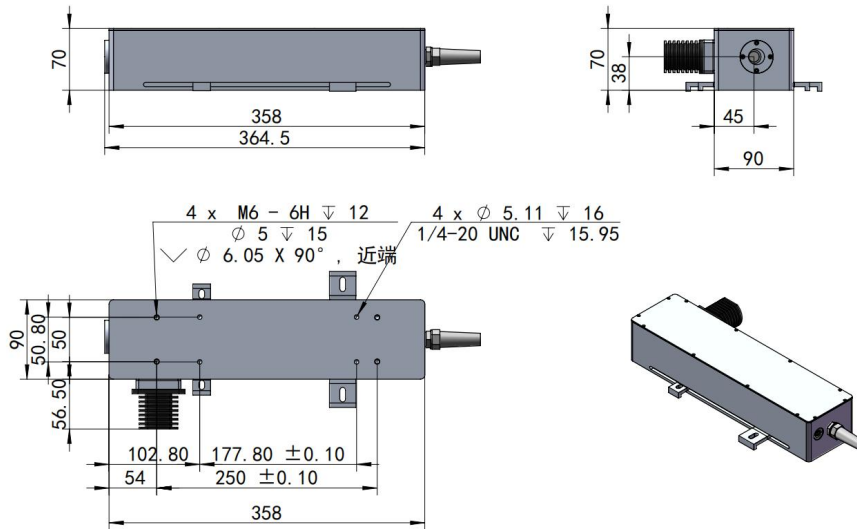


**Water Cooling Version Dimensions
(Power: ≥40W)**

Laser Controller




Laser Head



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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

