



508-513nm Widely Tunable Laser

Based on high-power, low-noise ytterbium-doped fiber amplification and frequency doubling technology, widely tuned narrow-linewidth laser output in the wavelength range of 508-513nm is achieved.



Features

- Narrow Line Width: <20kHz
- Low Intensity Noise
- High Power
- Excellent Beam Quality
- Never Mode Hop

Applications

- Solid-state lasers,
- dye lasers, etc
- Laser Medical Treatment
- Solar cell processing
- Optical lattices, atomic cooling and trapping

Specification				
Part Number	FL-SF-X-Y-CW ⁽¹⁾			
Wavelength Range	508-513nm			
Operation Mode	CW			
Output Power	> 0.5W ⁽²⁾	> 1W	> 2.5W	> 30W
Thermal Tuning Range ⁽³⁾	> 10GHz, Never Mode-hop			
Output Mode	Free Space Output, 0.6-1.0mm			
Linewidth ⁽⁴⁾ (100us)	< 200kHz			
PER	> 20dB			
Power Stability	< 0.75%			
Beam Quality	M² < 1.1			
PZT Frequency Tuning Range	> 3GHz			
PZT Frequency Tuning Bandwidth	> 5kHz			
Current Tuning Bandwidth	> 1MHz			
Current Tuning Range	> 1GHz			
RIN	< 0.06%			
Cooling	Air Cooling/Water Cooling		Water Cooling	
Operating Environment & Power Supply				
Temperature	15-30 °C (Air Cooling) or 15-35 °C (Water Cooling)			
Power Supply	100-240V, 50/60Hz			
Communication	RS422			

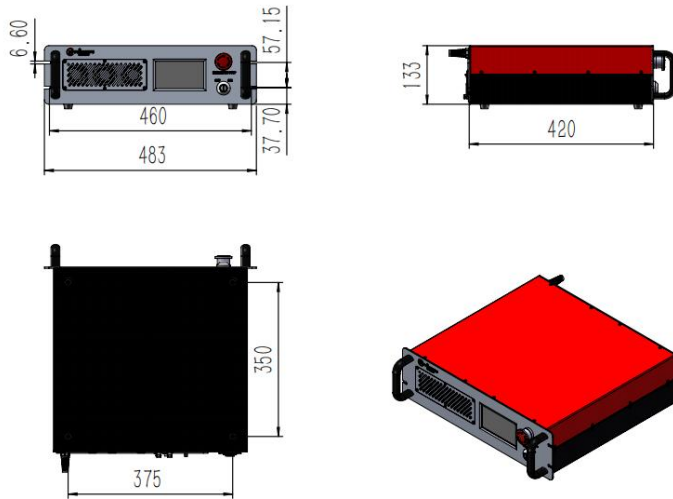
(1)X is the center wavelength in nm, Y is the laser power in W, for example, 509nm output power > 1W: FL-SF-509-1-CW

(2)Power ≤ 0.5W. Single-mode polarization-maintaining fiber output, FC/APC connector available.

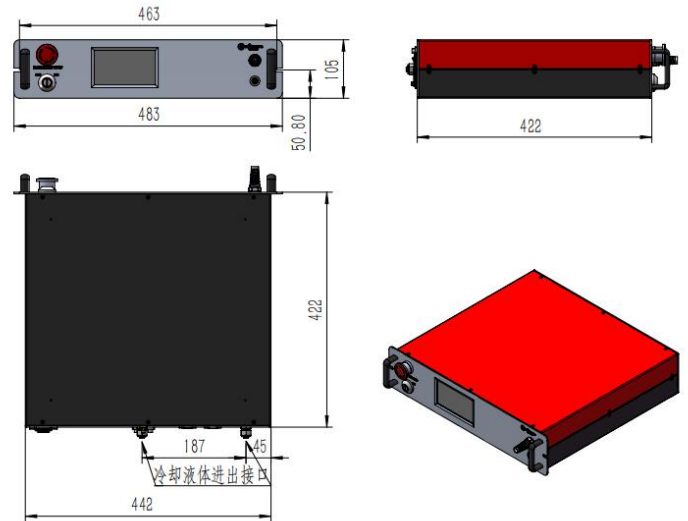
(3)The wide tuning option supports wavelength tuning ranges >5nm.

(4)Fiber Delay Self-Heterodyne Beat Frequency Measurement.

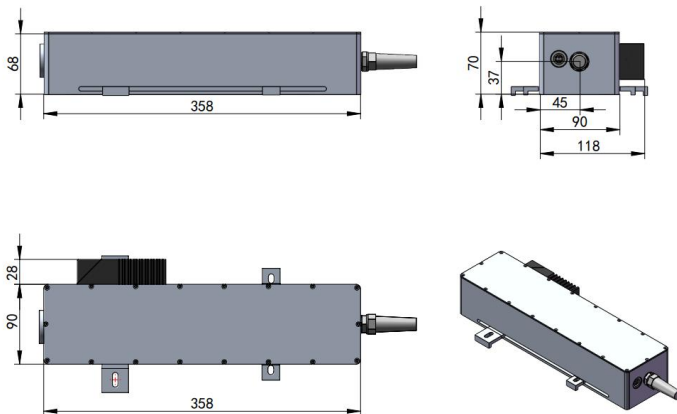
Air Cooling Control Unit Dimension



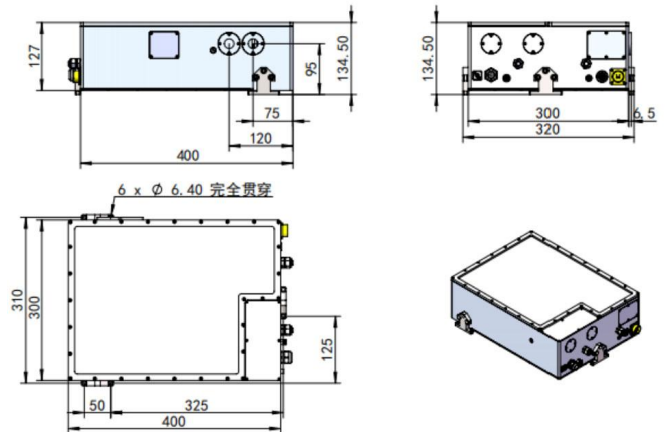
Water Cooling Control Unit Dimension



Laser Head Output Dimension (power≤2.5W)



Laser Head Output Dimension (power≤30W)



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⚠ DANGER

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