



759nm Narrow Linewidth Laser

Precilasers uses ultra-narrow linewidth fiber DFB laser as the seed source, and uses the difference frequency solution to achieve narrow linewidth, low noise 759nm laser.

Features

- Narrow Linewidth
- Low Intensity Noise
- Active Power Stabilization
- Excellent Beam Quality
- Never Mode-hop
- Resistant to high and low temperature and vibration working environment

Applications

- Quantum Computing
- Quantum Precision Measurement



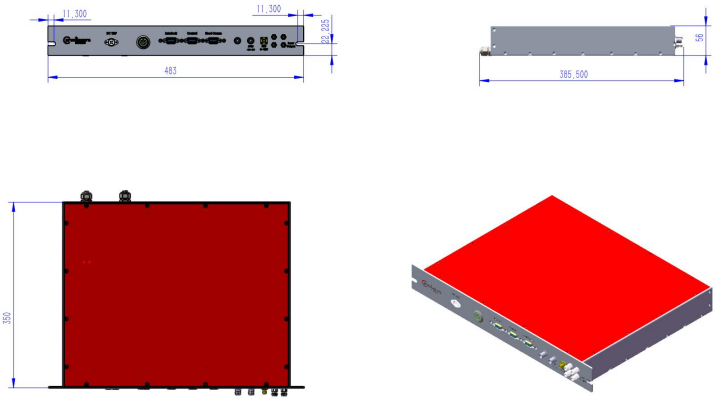
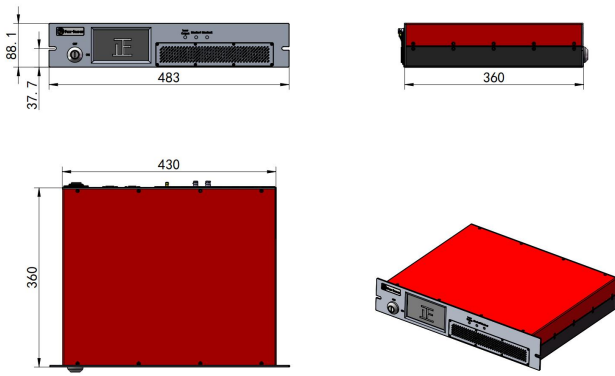
Specification			
Partnumber	FL-SF-XX-YY ⁽¹⁾ -CW		
Wavelength Range	730-765nm		
Common Wavelengths	741nm, 759nm		
Output Power	0.1W	0.5W	1W
Tuning Range (temperature)	> 0.3nm, Continuous , Never Mode-hop		
Output Mode	Spatial collimation output, diameter 0.6-1mm		
Linewidth (100 us integration)	< 30kHz		
Polarization Extinction Ratio	> 20dB,Linear		
Power Stability (3 Hours RMS)	< 0.75%		
Beam Quality	$M^2 < 1.3$		
Pzt Tuning Range	> 3GHz		
Pzt Tuning Bandwidth	> 5kHz		
Aom Tuning Bandwidth (optional)	> 500kHz		
Aom Tuning Range (optional)	> ± 5 MHz		
Cooling	Air Cooling	Water Cooling	

(1)XX: center wavelength, in nm, YY, in W, for example, output power 0.1W: FL-SF-759-0.1-CW, output power 1W: FL-SF-759-1-CW

Other Parameters	
Power Supply	100V-240V, AC, 50/60Hz

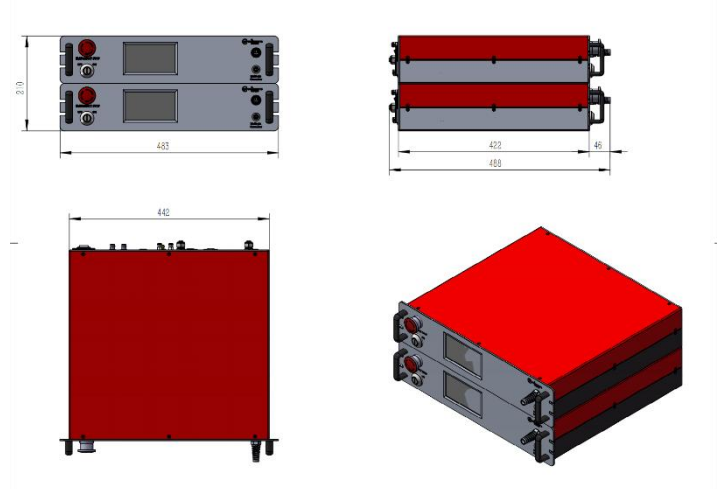
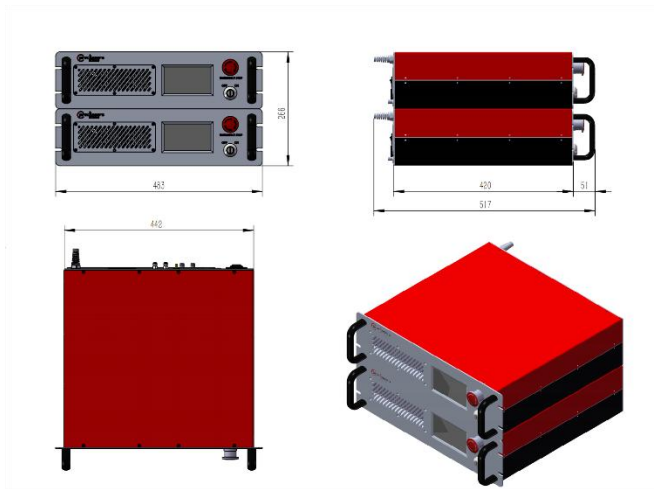
Air Cooling Version Dimensions

Water Cooling Version Dimensions



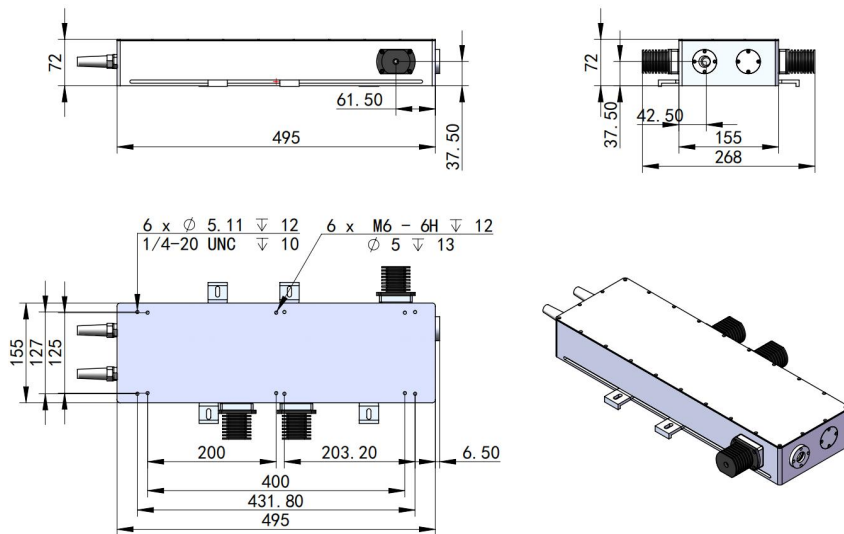
Air-cooled Thulium-doped Seed Laser Dimensions

Dimensions of water-cooled thulium-doped seed laser



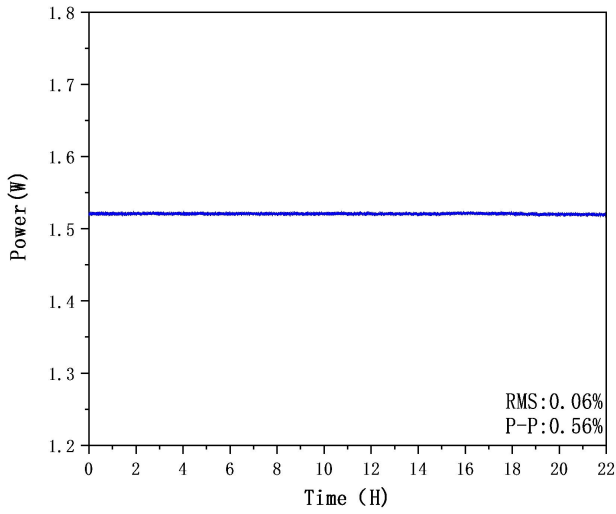
Air-cooled chassis dimensions

Water cooling chassis dimensions

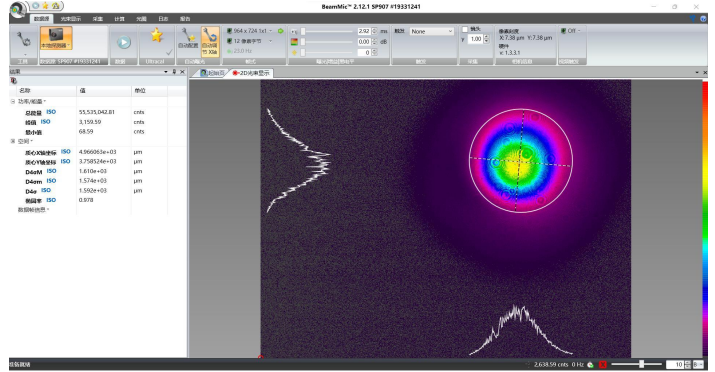


Laser Head

❖ Performance(typical value)



Power stability test chart: RMS=0.06%, 22h



Light spot test chart



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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

