

390nm Narrow Linewidth Fiber Lasers

Based on single frequency seed laser, low noise fiber amplifier and high efficiency frequency convert technique, Precilasers can provide narrow linewidth 390nm CW lasers, maximum output power is 8W, features with high frequency stability, long life and good beam quality.

Features

- Narrow Linewidth
- High Power
- Good Beam Quality

Applications

- Precision Measurement
- Interference Lithography



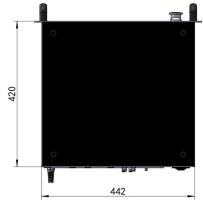
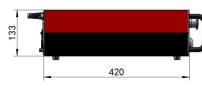
Specification									
Partnumber	FL-SF-390-X ⁽¹⁾ -CW								
Center Wavelength	390.00nm								
Linewidth ⁽²⁾ (100 us integration)	<40kHz								
Operational Mode	CW								
Output Power	>50mW	>1W	>3W	>6mW	>8W				
Beam Diameter	1±0.15 mm								
Beam Waist Location	output aperture±0.5m								
Beam Divergence (full angle)	<1mrad								
Beam Circularity	0.9-1.1								
Beam Pointing Stability (PP)	<15µrad	<50µrad							
Beam Quality	TEM ₀₀ , M ² <1.3								
Polarization	linear, >20dB								
Power Stability	<0.75% @3hours, RMS								
Relative Intensity Noise	<0.2%(RMS, 10Hz-10MHz integration)								
Cooling	Air cooling/Water cooling	Water cooling							
Warm-Up Time									
Cold Start	<2 hours								
Warm Start	<30 minutes								
Demension and Weight									
Controller Size	≤483mm x 420mm x 133mm (50mW)		≤483mm x 520mm x 132mm (1W,3W,6W,8W)						
Laser head Size	≤466mm x 85mm x 50mm (50mW)		≤235mm x 468mm x 127mm (1W,3W,6W,8W)						
Chiller Size	NA								
Chiller Weight	≤25kg								
Cable length between laser head and controller	>1.5m								
Environment and Power Supply									
Operating Temperature (No condensing)	15-30 °C (Air cooling)		15-35 °C (Water cooling)						
Power Supply	100V-240V, AC, 50/60Hz								
Power Consumption	<200W								
Communication	RS422								

(1)X indicates laser power,unit in W.For example output power is 3W: FL-SF-390-3-CW.

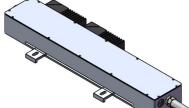
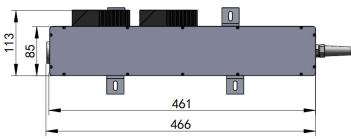
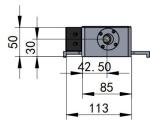
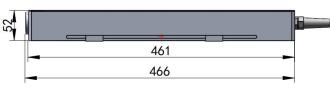
(2)Linewidth measured by delayed self-heterodyne

Air cooling Version
(Output Power: 50mW/1W)

Laser Controller

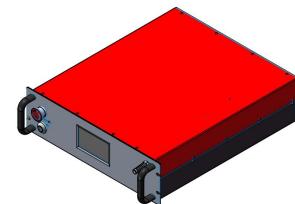
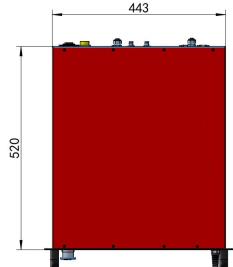
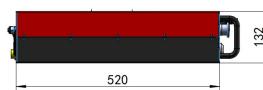
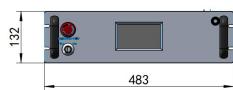


Laser Head (50mW)

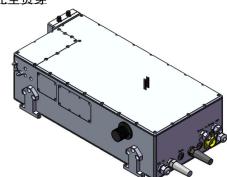
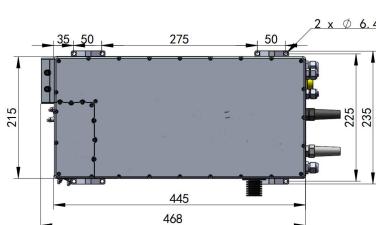
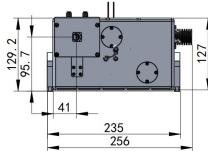
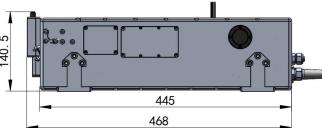


Water cooling Version
(Output: 1W,3W,6W,8W)

Laser Controller



Laser Head (≥1W)



Non-dismantle fiber length $\geq 1.5\text{m}$ between controller and laser head

Non-dismantle fiber length $\geq 1.5\text{m}$ between controller and laser head



Shanghai Precilasers Technology Co., Ltd.
Floor 2, Building 2, No. 1918, Xupan Road, Jiading
District, Shanghai
2021-59160265

info@Precilasers.com | www.Precilasers.com

