

## 759nm narrow linewidth laser

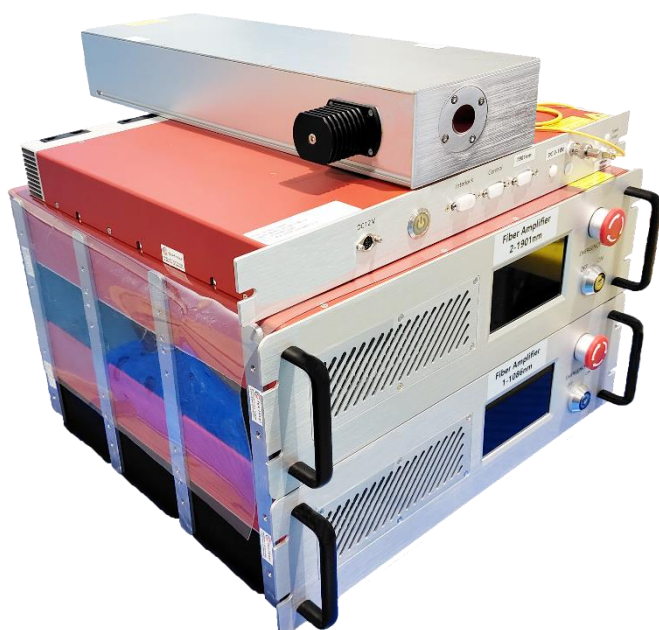
PreciLasers 759nm laser, the seed laser is output after fiber amplification and single pass frequency doubling, has the Features of narrow Line width, high frequency stability and low intensity noise, and can be used in optical precision measurement, nonlinear optical optical pumping, Quantum computing and other fields.

### Features

- narrow linewidth
- tunable
- linear polarization
- Continuous laser

### Applications

- Optical precision measurement
- Optical pumping of the nonlinear optics
- Quantum computing

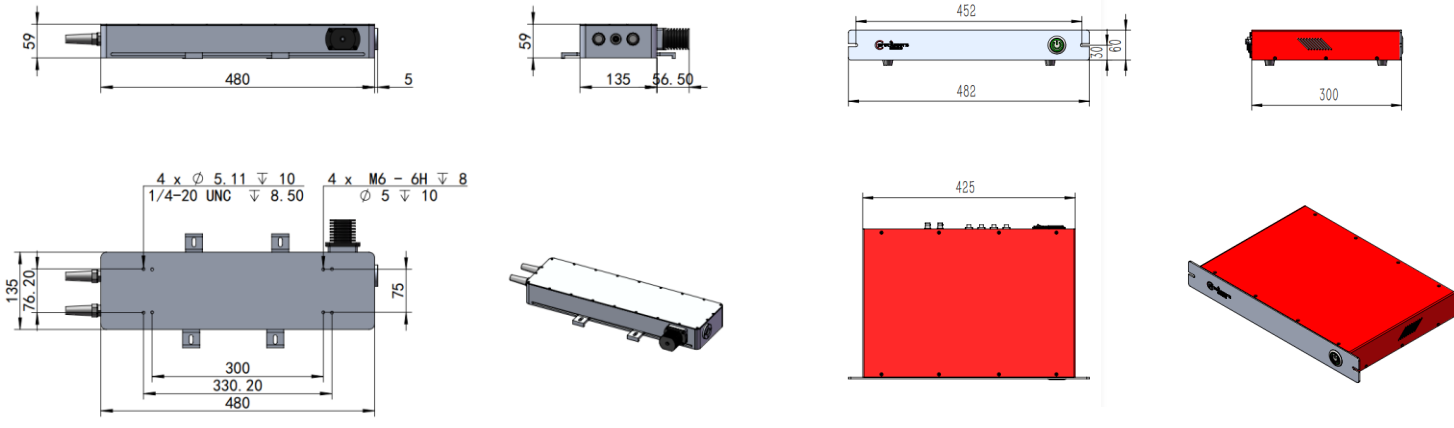


Optical parameters	
Central wavelength	759nm
Output power	> 10W
Tuning range (temperature)	$\pm 0.15$ nm
Output mode	Space collimated output
Line width <sup>(1)</sup> (100us integration time)	< 30kHz
Polarized extinction ratio	> 20dB
Power Stability (3-hour RMS)	< 0.75%
Beam quality	$M^2 < 1.1$
Intensity noise (10Hz-10 MHz integration)	< 0.03%
Cooling method	Water cooling

(1) The optical fiber delay is measured from the heterotropic beat frequency method

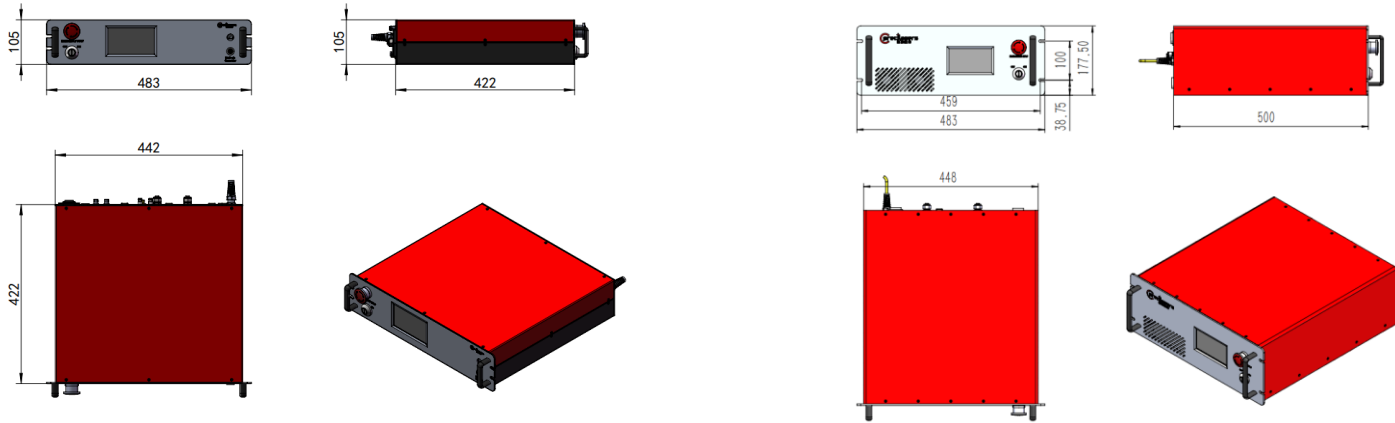
Other parameters	
Working temperature	15-25°C
Power consumption	< 150W
Supply electricity	100V-220V, AC , 50Hz

❖ Product Dimensions



laser head

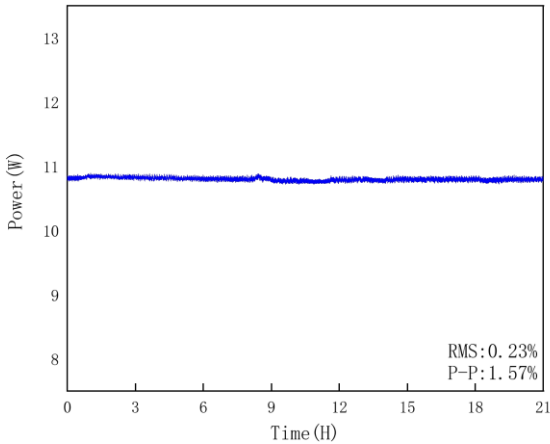
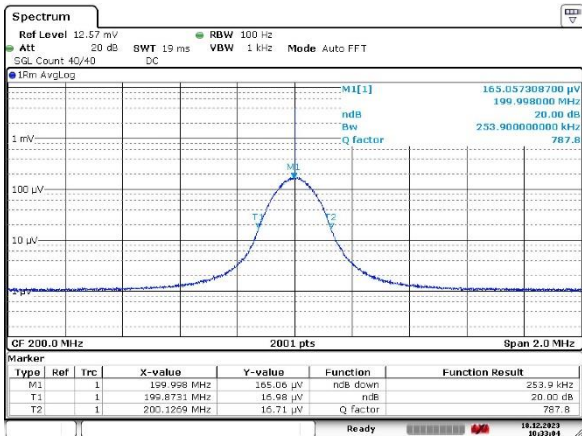
Seed laser



Fiber-optic amplifier 1

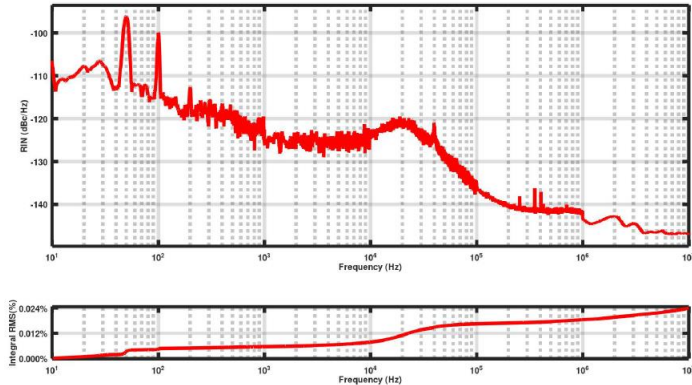
Fiber-optic amplifier 2

❖ Performance indicator test (typical value)



Line width test diagram: 12.7kHz

Power stability test: 21-hour RMS = 0.23%, p-p=1.57%




Relative Intensity Noise Test (RIN): 0.03% [10Hz-10 MHz]



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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**