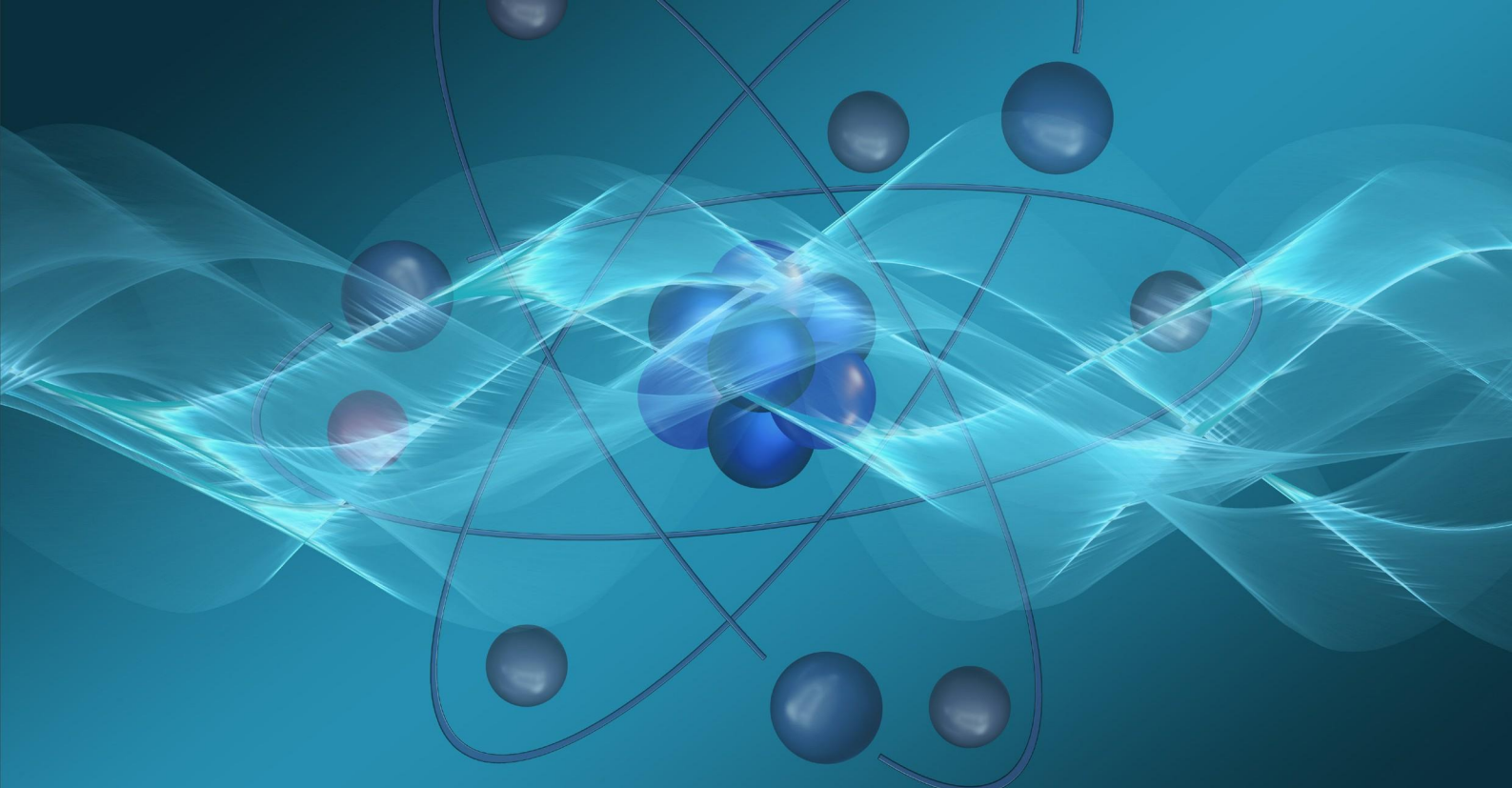




251-283.5nm Narrow Linewidth Laser

Based on high-power, low-noise Yb-doped fiber lasers amplification and frequency quadrupling technology, Precilasers can provide high-power, narrow linewidth laser output with a wavelength ranging from 251 to 283.5 nm.

Features

- Narrow Linewidth
- Low RIN
- High Power
- Power Stability: <1%rms, 3hrs
- Excellent Beam Quality ($M^2 < 1.3$)
- Never Mode-hop
- High Temperature And Vibration Resistance

Applications

- Helium Atom Single Photon Rydberg
- Parametric Conversion

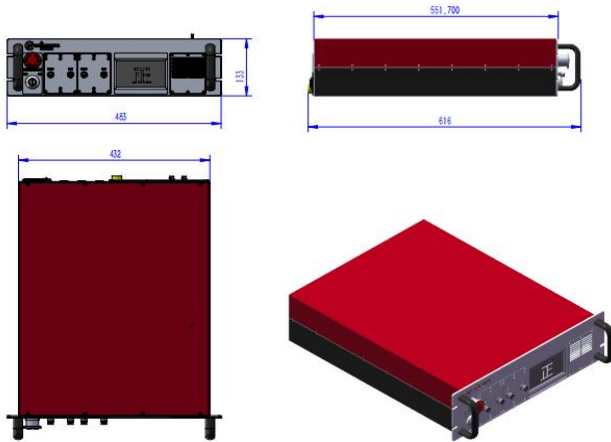


Specification			
Partnumber	FL-SF-XXXX-YY-CW ⁽¹⁾		
Wavelength Range	251-283.5nm		
Typical Wavelength	257nm、266nm		
Operation Mode	CW		
Output Power	> 0.1W	> 0.5W	> 1W
Thermal Tuning Range	> 0.17nm, Never Mode-hop		
Output Mode	Free Space Output		
Beam Diameter	0.8-1.2mm		
Linewidth ⁽²⁾ (100us)	< 40kHz		
PER	> 20dB		
Power Stability	< 1%@3hours, RMS		
Beam Quality	M ² < 1.3		
Fast Frequency Tuning Range	> 3GHz		
Fast Frequency Tuning Bandwidth	> 5kHz		
AOM Tuning Range (Optional)	> ±5MHz		
AOM Tuning Bandwidth (Optional)	> 500kHz		
RIN	< 0.08% (10Hz-100MHz, RMS)		
Cooling	Air Cooling/Water Cooling		
Operation Environment & Power Supply			
Temperature	15-30 °C (Air Cooling) or 15-35 °C (Water Cooling)		
Power Supply	100V-240V, AC, 50/60Hz		
Communication	RS422		

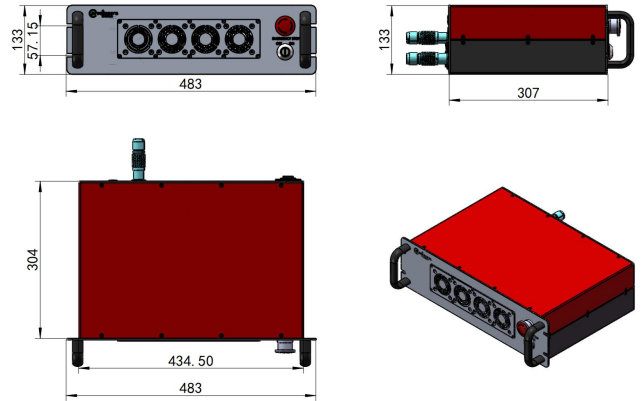
(1)XXXX is the laser center wavelength, YY is the laser power, for a 1W 257nm laser,the partnumber is FL-SF-257-1-CW

(2)Measured by self-hetrodyne method

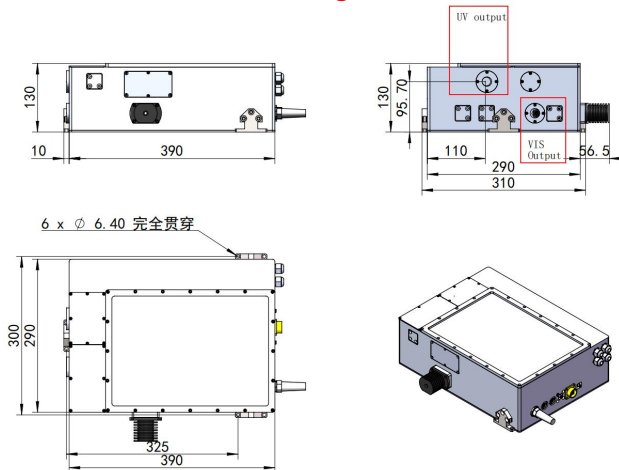
Air Cooling Control Unit Dimension (Output power: 30mW & 100mW)



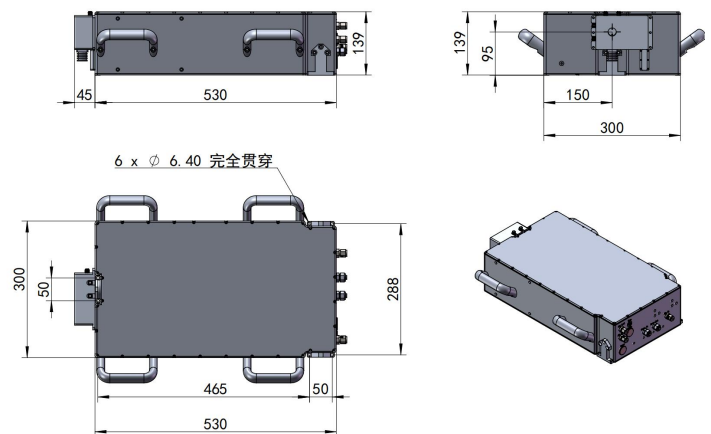
Water Cooling Control Unit Dimension (Output power: 500mW & 1W)



Laser Head Output Dimension (Air Cooling Version)



Laser Head Output Dimension (Water Cooling Version)



ShanghaiPrecilasersTechnologyCo.,Ltd.

📍 Floor2,Building2,No.1918,XupanRoad, JiadingDistrict, Shanghai

☎ 021-59160265

info@precilasers.com

www.precilasers.com



⚠ DANGER

VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT