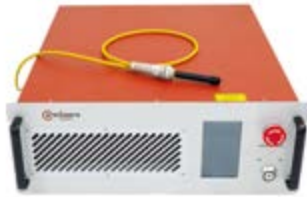


SINGLE FREQUENCY RAMAN FIBER LASER

Stabilization, Compact, Excellent beam quality



PreciLasers offers 1120-1700 nm Raman fiber amplifiers to overcome the limited emission spectral region of the rare-earth-doped fiber amplifiers. The maximum output power can reach up to 30 W for single-frequency operation. Meanwhile, the amplifiers use all-polarization-maintaining design, which makes them compact in size and long-term stable. They are designed for the applications like laser atomic cooling and laser spectroscopy etc.

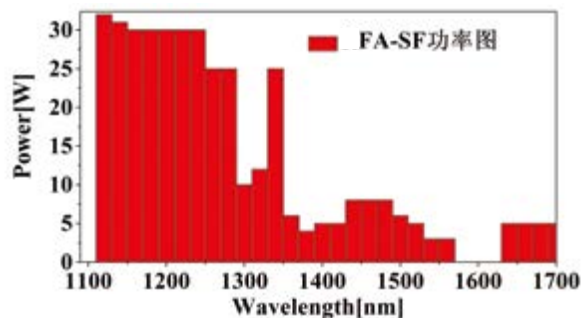
Key Features:

- Narrow linewidth
- Wide wavelength range
- Low intensity noise
- Good beam quality ($M^2 < 1.2$)
- Seed Power off Protection System

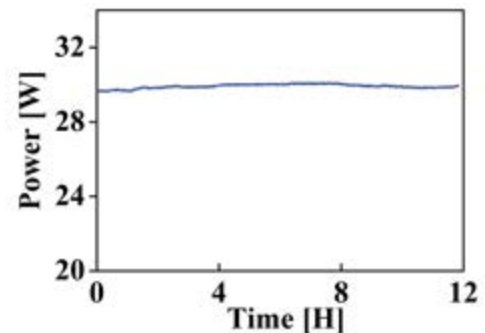
Applications:

- Optical Communication
- Laser Lidar
- Interferometry
- Source for frequency doubling
- Pump Laser for OPO

Product: FA-SF-1342-28-CW



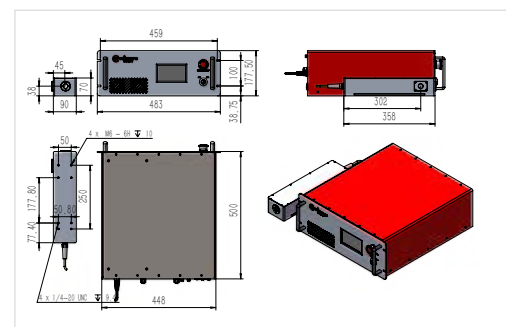
Wavelength-Power



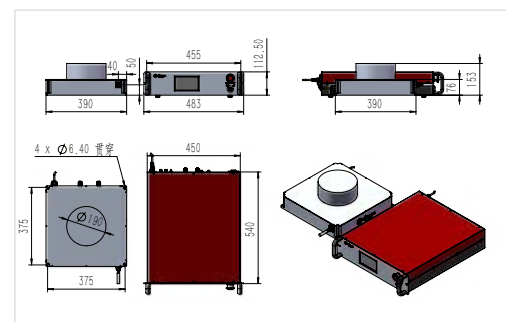
30 W 1342 nm Raman amplifier Power stability Test

Model	FA-SF-XX-YY-ZZ ¹		
Central Wavelength , nm	1120-1340	1340-1530	1640-1700
Output Power, W	30	15	5
Seed Laser Power , mW	>10		
Linewidth FWHM , kHz	Determined by the seed laser. The amplifier linewidth is <100 Hz		
Operation Mode	CW		
Beam Quality	TEM ₀₀ , M ² <1.15		
Polarization, dB	> 20		
RMS Power Stability, %	<0.75 %@3hrs		
Output	Collimated Output		
Cooling	Air Cooling/Water Cooling		
Power	50-60Hz , 100-240VAC		

1: XX: Central Wavelength; YY: Output Power; ZZ: Operation Mode



Size for Low Power(<20W)Raman Amplifier



Size for high Power(>20W)Raman Amplifier