Single frequency Raman fiber laser 1120-1750nm

Description:

The Raman-AMP-1653.7-1W-CW 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.

Features:

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

Optional:

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

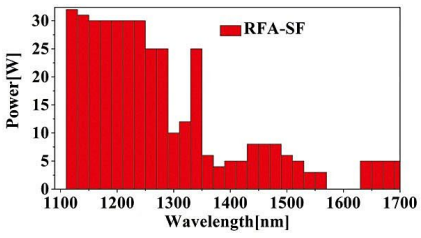
Specifications:

Model	Raman-AMP-XX-YY-ZZ1		
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	TEM00, M2<1.15		
Polarization, dB	> 20		
RMS Power Stability, %	<0.75%@3hrs		
Output	Collimated Output		
Cooling	Air Cooling/Water Cooling		
Power	50-60Hz , 100-240VAC		

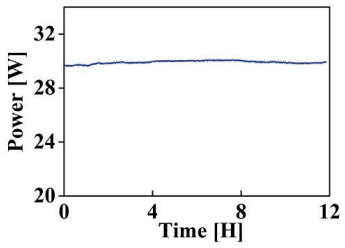
Note: 1: XX: Central Wavelength; YY: Output Power; ZZ: Operation Mode.

Amplifier ability and Power stability:

Product: RFA-SF-1342-28-CW

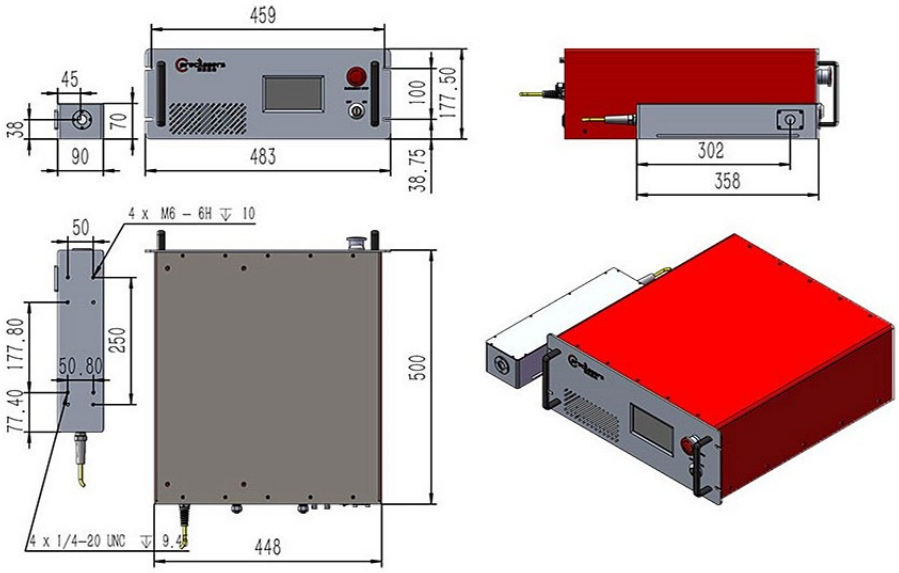


Wavelength-Power



30 W 1342 nm Raman amplifier Power stability Test

Package Size:



Ordering Info:

Raman-AMP-W□□□□-☆-▽

□□□□: Wavelength

1113:1120-1340nm

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1315: 1340-1530nm

1617: 1640-1700nm

☆ : Output Power

A: 30dbm

B: 35dbm

▽: Working Mode

1:CW

2: Pulse Mode