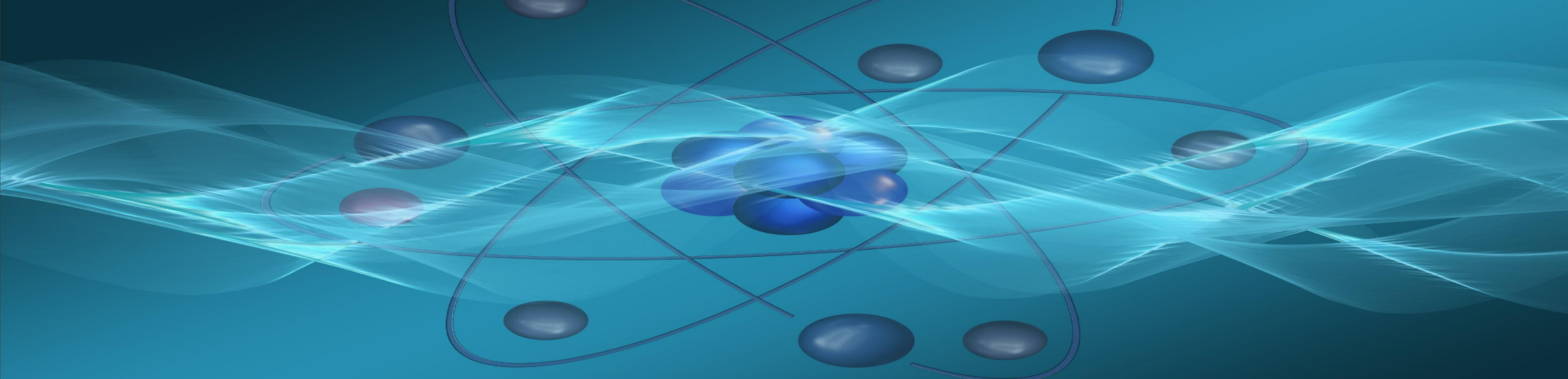




Ytterbium-doped Fiber Amplifier(976nm-1134nm)

Based on Ytterbium-doped fiber amplifier technique, Precilasers can provide high power and low noise amplifier in 976nm-1134nm range..



Features

- Low intensity noise
- Low phase noise
- Good beam quality

Application

- Laser Pumping
- Optical Lattice
- Optical Trap

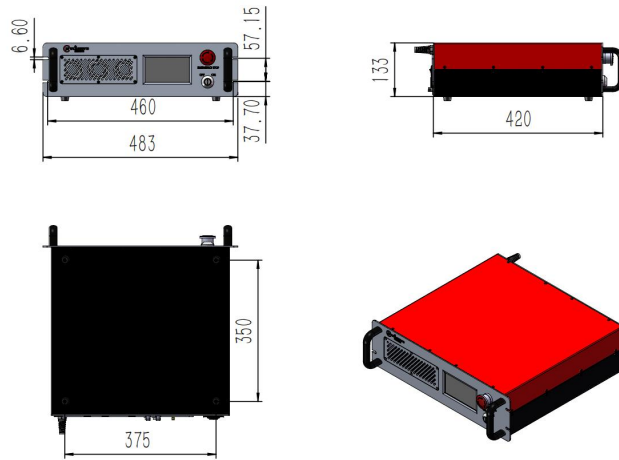
Specification						
Partnumber	FA-SF-X-Y-CW ⁽¹⁾					
Wavelength Range	976-978nm	1012-1020nm	1020-1080nm	1080-1095nm	1095-1110nm	1110-1134nm
Output Power	> 2W/8W	> 2W/10W/30W/50W/100W	> 2W/10W/30W/50W/100W/130W/200W	> 2W/10W/30W/50W/100W	> 2W/10W/30W	> 2W/5W/10W
Typical Wavelength	977nm, 1012nm, 1064nm, 1112nm					
Bandwidth	> ±2nm	> ±2nm	> ±10nm	> ±5nm	> ±5nm	> ±2nm
Relative Intensity Noise	<0.03% (RMS, 10Hz-10MHz Integration)					
Power Stability	<0.75% @3hours, RMS					
Power Tuning Range	1-100%					
Output Mode	Single Mode PM fiber, FC/APC Connector (Output Power≤2W) OR Collimated Output (All Power)					
Beam Diameter ⁽³⁾	0.6±0.2mm(Output Power≤30W), 1.7±0.2mm(Output Power>30W)					
Pointing Stability	<±2μrad/°C					
Beam Quality	TEM ₀₀ , M ² <1.1					
Polarization	Linear, >23dB					
Seed Laser Input Power	≥10mW ⁽²⁾ , Single Mode PM Fiber, FC/APC Connector					
Seed Laser Input Isolation	>25dB					
Output Laser Isolation	>25dB					
Cooling	Air Cooling(Output Power≤50W)/Water Cooling (All Output Power)					
Operating 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)X is the center wavelength, Y is the output power, for 1064nm 50W amplifier, the partnumber is FA-SF-1064-50-CW

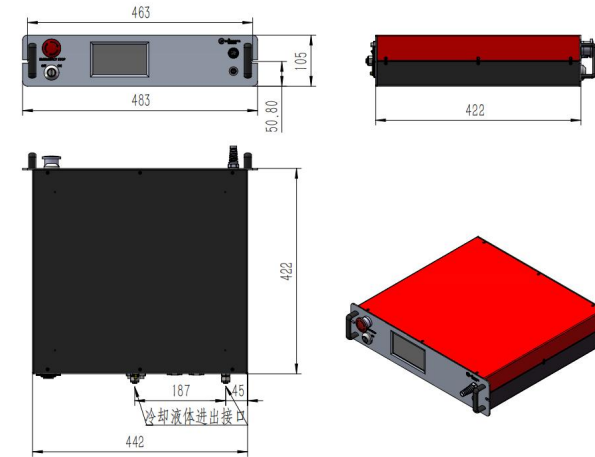
(2) Default input power should be 10-50mW, for higher or lower input power, please email us for customization

(3) Beam size for collimated outout, If PM fiber FC/APC connector output, there is no extra collimator

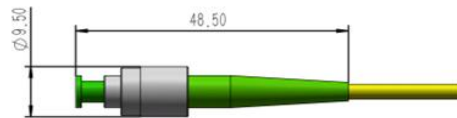
**Air cooling controller size
(Output power≤50W)**



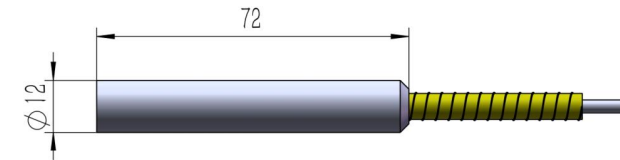
**Water cooling size
(For all power)**



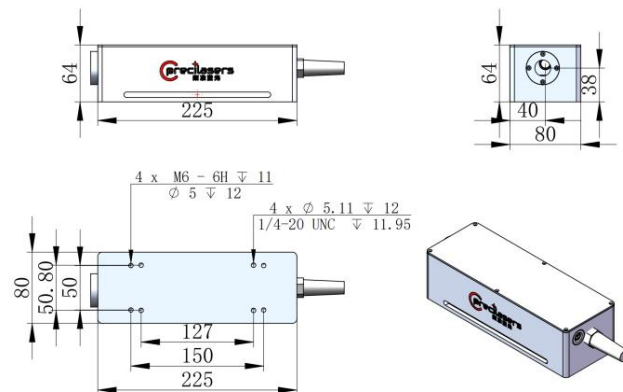
FC/APC connector (Output power≤2W)



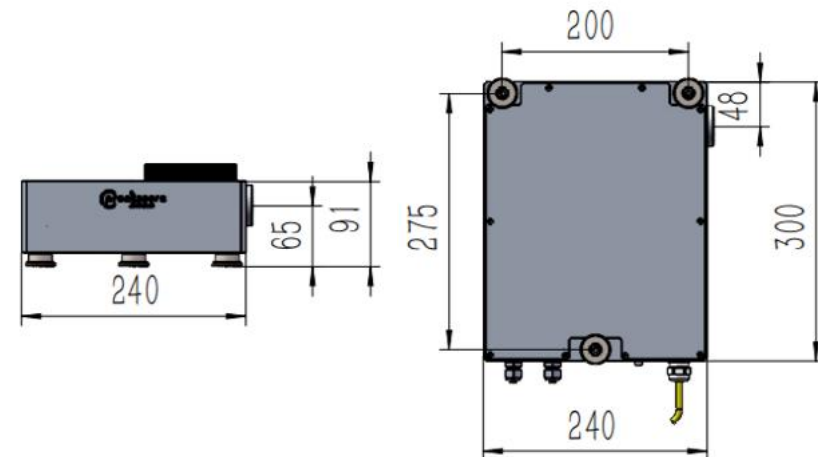
Collimator size (Output power≤20W)



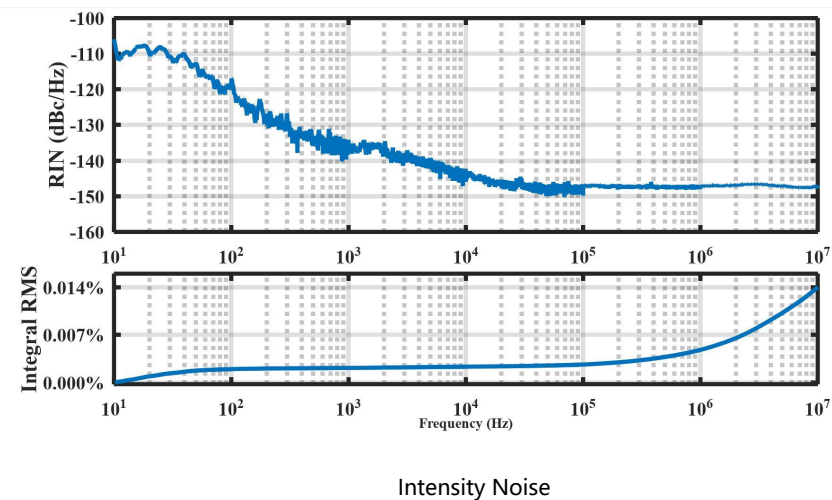
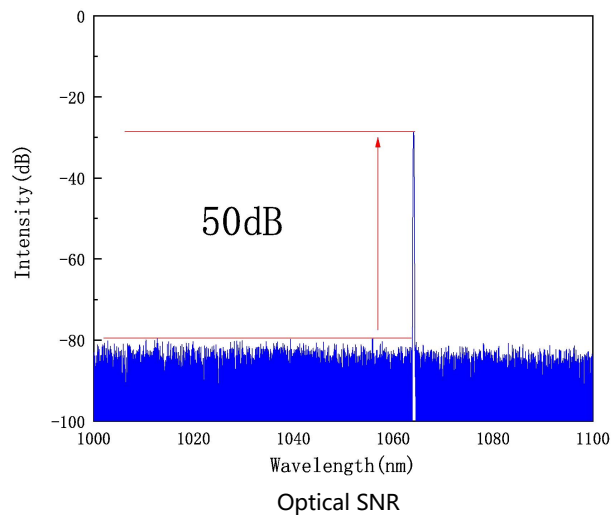
Laser head size (Output power≤50W)



Laser head size (Output power>50W)



❖ Performance (Typical Value)



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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