



Tm-doped Fiber Amplifier(1695nm-2100nm)

Based on Tm-doped fiber amplifier technique, Precilasers can provide amplifier that cover 1695-2100nm range, to maximum power of 50W, and keeping very low phase noise and intensity noise.

Feature

- High Power
- Low Phase Noise
- Low Intensity Noise

Application

- Quantum Precision Measurement
- Quantum Computation
- Pumping



Specification

Partnumber	FA-SF-X-Y-CW ⁽¹⁾				
Wavelength range	1695-1730nm	1730-1850nm	1850-1900nm	1900-2050nm	2050-2100nm
Output Power	>1W/2W/5W	>2W/10W/20W	>2W/10W/20W/30W	>2W/15W/30W	>2W/10W/20W
Typical Wavelength	1762nm, 2051nm				
Bandwidth	>±3nm	>±5nm	>±10nm	>±10nm	>±5nm
Relative Intensity Noise	<0.05% (RMS, 10Hz-10MHz Integration)				
Power Stability	<0.75% @3hours, RMS				
Power Tuning Range	1-100%				
Output Mode ⁽²⁾	Single Mode PM fiber, FC/APC Connector (Output Power≤2W) OR Collimated Output (All Power)				
Beam Diameter	0.6±0.2mm				
Beam Quality	TEM ₀₀ , M ² <1.1				
Polarization	Linear, >23dB				
Seed Laser Input Power	≥10mW ⁽³⁾				
Seed Laser Input Isolation	>25dB				
Output Laser Isolation	>25dB				
Cooling	Air Cooling /Water Cooling				

Operating Environment & Power Supply

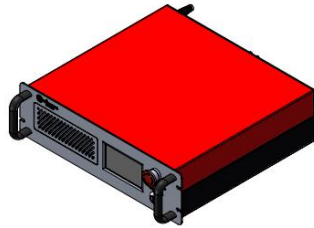
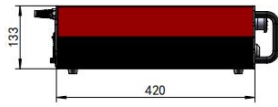
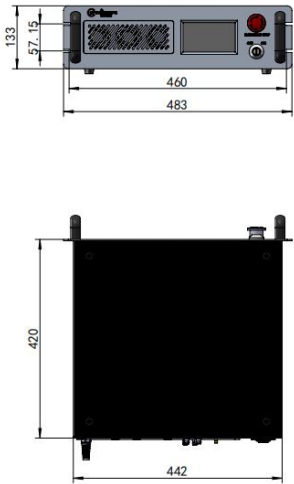
Temperature	15-30 °C (Air Cooling) OR 15-35 °C (Water Cooling)
Power Supply	100V-240V, AC, 50/60Hz
Communication	RS422

(1)X is the center wavelength, Y is the output power, for 1762nm 2W amplifier, the partnumber is FA-SF-1762-2-CW.

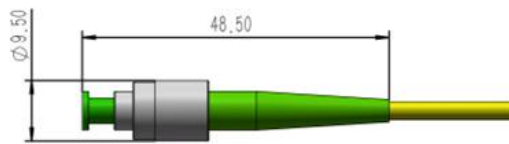
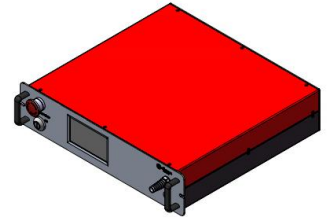
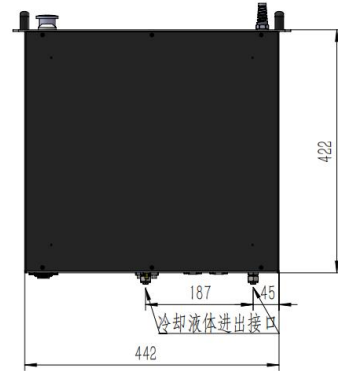
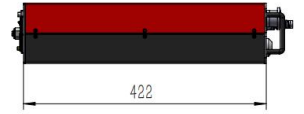
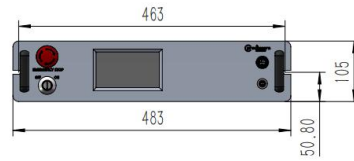
(2) Beam size for collimated outout, If PM fiber FC/APC connector output, there is no extra collimator

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

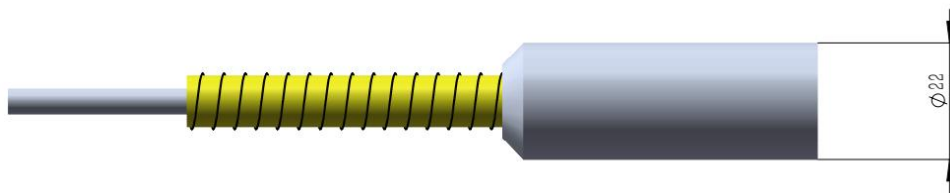
Air cooling controller size



Water cooling size



FC/APC connector (Output power ≤ 2W)



Collimator size (Output power)



Shanghai Precilasers Technology Co., Ltd.
 Floor 2, Building 2, No. 1918, Xupan Road, Jiading District, Shanghai
 021-59160265

www.precilasers.com info@precilasers.com



⚠ Laser Hazard

Visible or invisible laser radiation, avoid eye or skin exposure to direct, reflected or filtered radiation.
CLASS 4 Laser Products