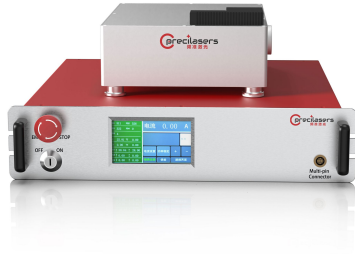


# Yb fiber amplifier(976-1134nm)

## FIBER AMPLIFIERS



Yb fiber amplifier(976-1134nm) Based on ytterbium-doped fiber amplification technology, it amplifies single-frequency or non-single-frequency input lasers within the 976-1134 nm range, achieving a maximum output of 200 W while ensuring extremely low intensity noise and phase noise in the output laser. It features high power, low-noise amplification, and ultra-fast seed laser shutdown protection.

- Ultra
- Stable Output Power Excellent
- Beam Quality Seed Power
- Protection System Low Noise
- Continuous Mid
- Infrared Optical Parametric Oscillator
- Pump Source Optical Lattice
- Optical Trap Interferometry Holographic

### Specifications

Parameter	FA-SF-X-Y-CW (1)
Wavelength Range	976-978nm / 1012-1020nm / 1020-1080nm / 1080-1095nm / 1095-1120nm / 1131-1134nm
Output Power	>2W/8W / >2W/10W/30W/50W/100W / >2W/10W/30W/50W/100W/130W/180W / >2W/10W/30W/50W/100W / >2W/10W/30W / >2W/5W
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	10-100%
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±0.3mm(Output Power>30W)
Pointing Stability	<±2μrad/°C
Beam Quality	TEM00, M <sup>2</sup> <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)
Temperature	15-30 °C (Air Cooling) OR 15-35 °C (Water Cooling)
Power Supply	100V-240V, AC, 50/60Hz
Communication	RS422

Source: WaveQuanta product database. For ordering, customization (wavelength, power, package) and quotation, contact sales@wavequanta.com.