ER-DOPED CONTINOUS WAVE FIBER LASER
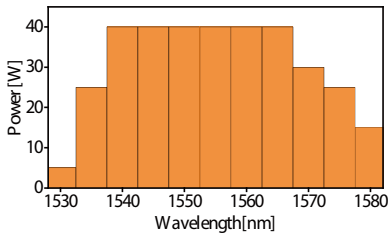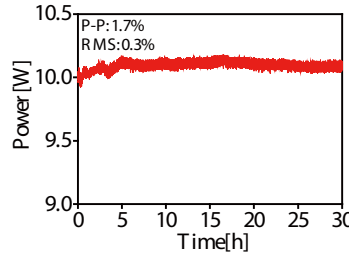
High Power，Excellent beam quality,High stability

PreciLasers offers a 1530-1605 nm Erbium-doped fiber laser with innovative ASE suppression technology. Maximum output power can be up to 40 W. For low power output, we use traditional diode laser to pump double-clad Erbium-Ytterbium co-doped fiber, which has compact structure and low cost. For higher output power, the maximum output power is 40 W, which can be used in high power applications such as pumping mid-infrared lasers The lasers have excellent beam quality, all fiber configuration, wide emission wavelength.

Laser Example EFL-1560-10
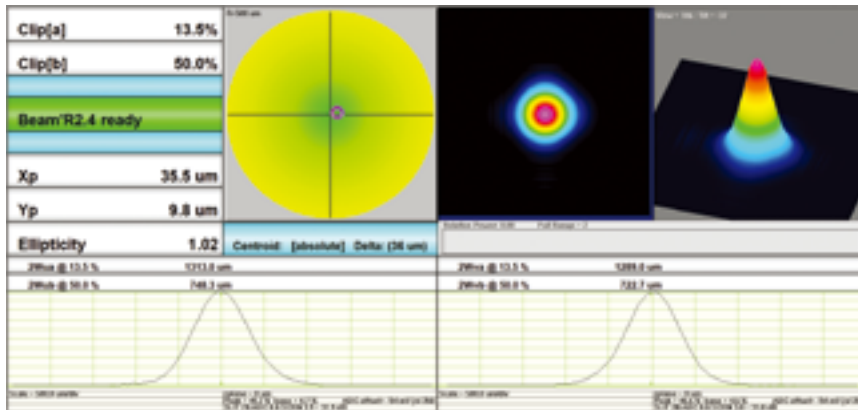

EFL-HP Wavelength-Power

EFL-1560-10 Power Stability

Key Features:

- Excellent Beam Quality:M^2 <1.1
- High Output Power:40 W
- Wide Emission
  Wavelength:1530-1580 nm
- Excellent power stability
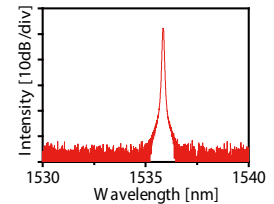
Applications:

- Fiber Laser Communication
- 1530 nm pump laser
- 15xx nm Raman Pump Laser
- 15xx nm Tm-doped Pump Laser

EFL-1535-40 Beam Profile

- **Output Power: 40 W**
- **Linewidth: 0.2nm**
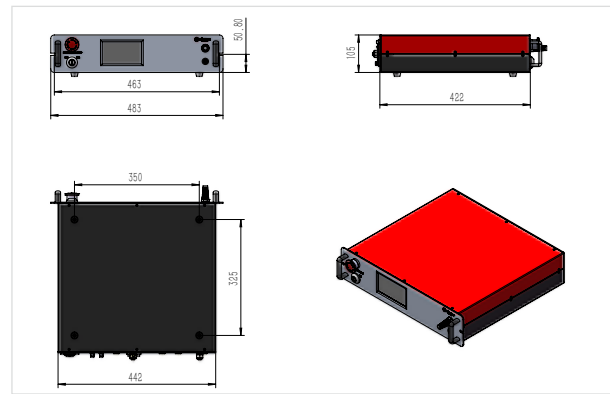- **Power peak fluctuation ,
  M^2＜1.1**

EFL-1535-30 key parameters

EFL-1535-40 output spectrum

Model	EFL-XX-YY[1]			
Central Wavelength[2] , nm	1530-1535	1535-1540	1540-1565	1565-1580
Linewidth[3] , nm	< 0.5	< 1		
Output Power[4] , W	20	40	50	20
Beam Quality	TEM_{00}, $M^2 < 1.1$			
PER, dB	Optional Linearly-Polarized , > 18	Optional Linearly-Polarized , >20		Optional Linearly-Polarized , > 18
RMS Power Stability, %	P-P < 2%@3hrs , RMS < 0.5%@3hrs			
Output Connector	Collimated Output			
Cooling	Air Cooling/Water Cooling			
Operation Temperature , ℃	15-35			
Power Supply	50-60Hz , 100-220VAC			

1: XX: Central Wavelength；YY: Output Power；ZZ: Operation Mode.
2: Central wavelength can be customized.

3: Typical spectral width less than 1.5 nm and can be customized.
4: Out power can be customized.
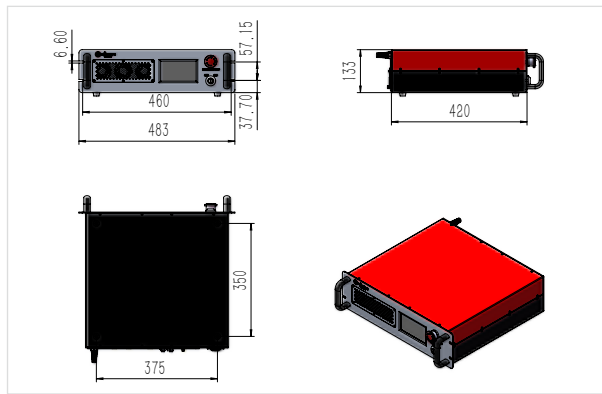
Size for Air-cooling Version

Size for Water-Cooling Version