



Er-doped Continuous Wave Fiber Laser



The product description

Erbium group 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.

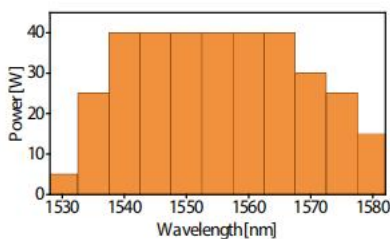
Key Features:

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

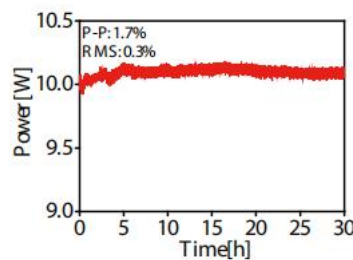
Applications:

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

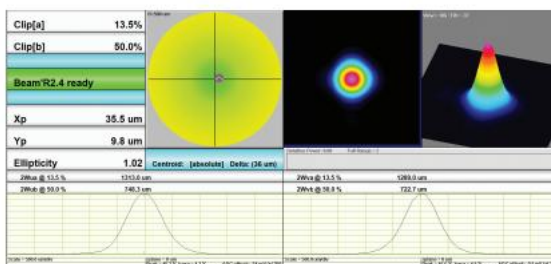
Laser Example EFL-1560-10



EFL-HP Wavelength-Power



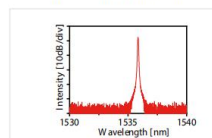
EFL-1560-10 Power Stability



EFL-1535-40 Beam Profile

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

EFL-1535-30 key parameters



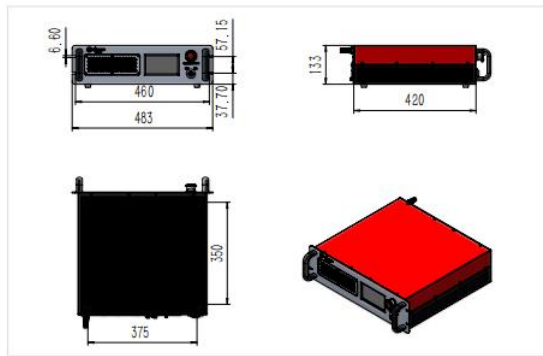
EFL-1535-40 output spectrum



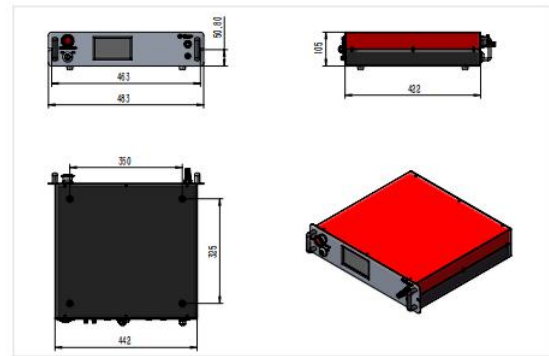
Technical indicators

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

Structure size



Size for Air-cooling Version



Size for Water-Cooling Version