

1560nm High-Power Femtosecond Pulse Fiber Laser

FEMTOSECOND FIBER LASERS



The E-Fiber series of high-power ultrafast lasers incorporates the latest femtosecond laser technology, utilizing high-performance rare-earth fibers as the working medium. Coupled with high-precision dispersion compensation technology and an active servo control system, they achieve stable output of femtosecond pulse lasers in the 1.5 μ m wavelength band with an average power of 1 watt. With one-button auto-start, these lasers ensure long-term stable operation and are characterized by extremely narrow laser pulses and high peak optical pulse power. The lasers have extensive applications in the fields such as optical frequency combs, supercontinuum generation, terahertz (THz) technologies, and beyond. Customization of parameters including pulse width, power, repetition rate, and more, is available upon request.

- Pulse duration 120 fs
- Average power 1W
- Compact and turnkey
- Robust and reliable
- Applications
- Optical frequency comb
- Supercontinuum generation
- Terahertz research

Specifications

Parameter	Specification
Center Wavelength (nm)	1560 \pm 10
Pulse Duration (fs)	\leq 120
Average Power (W)	1
Power Instability	$< \pm$ 1%
Repetition Rate (MHz)	80-100
Pulse Energy (nJ)	$>$ 10
Polarization	Linear polarization , PER $>$ 20dB
Output form	Free space
Beam quality	M ² $<$ 1.2
Beam diameter (mm)	\leq 1.6
Beam divergence angle (mrad)	$<$ 1.5

- * Pulse Duration: Customizable
- * Average Power: Customizable
- * Power Instability: 24h@25 °C
- * Repetition Rate: Customizable
- * Polarization: Vertical polarization
- * Beam quality: TEM₀₀
- * Beam diameter: * 1/e² Waist Diameter

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