

1560nm High Repeation rate Femtosecond Fiber Laserr

The E-Fiber series ultrafast lasers integrate the latest femtosecond laser technology, using high-performance rare-earth fibers as the working medium and combining high-precision dispersion compensation technology and active servo systems to stably output high-repetition-rate femtosecond pulse lasers in the 1560nm band.

It features one-click self-startup upon power-on, long-term stable operation without maintenance, and has characteristics such as extremely narrow laser pulses and high peak pulse power. It is widely applied in fields such as optical frequency combs, supercontinuum, and terahertz (THz).

Customization is available for parameters such as pulse width, power, and repetition frequency.

Features

Pulse width: 50 to 500 fs

The pulse repetition frequency can be customized from 200 MHz to 1 GHz.

Self-starting and maintenance-free Full protection with high stability.

Application

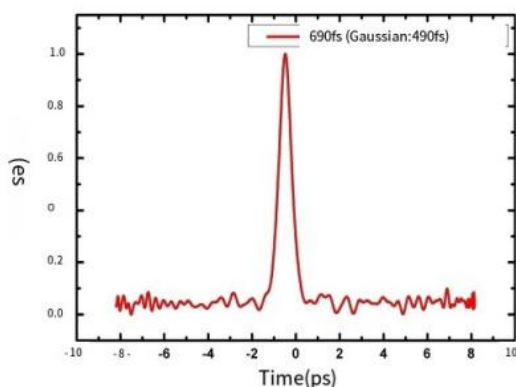
Optical frequency comb

Supercontinuum

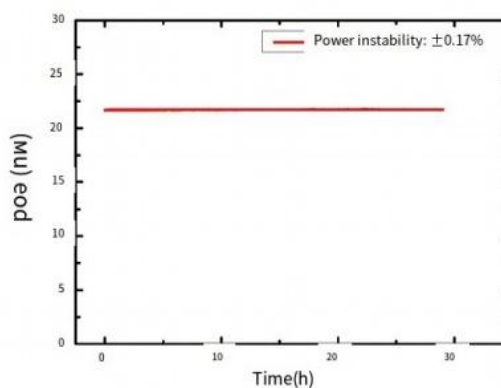
Ultrafast laser phenomena

Optical indicators	unit	Typical value	Note
Wave Long	nm	1560±10	
Spectral width	nm	20	
Pulse width	fs	50 to 50	Customizable
Output power	mW	1 to 20	Customizable
Power instability	-	±1%	
Repetition frequency	MHz	≥200	Customizable from 200 MHz to 1 GHz
Instability of repetition frequency	Hz	<200	
Single-pulse energy	nJ	>1	
polarization state	-	Linear polarization	
Optical fibers and connectors	-	PM1550, FC/APC	Slow-axis alignment
Preheating time	min	<1	

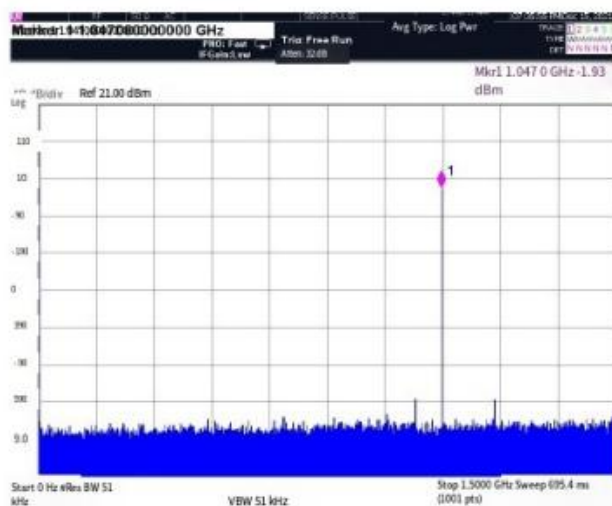
Electrical and environmental parameters	Desktop	Module
Control mode	button	button
Synchronous telecommunication signal interface	SMA	SMA
for Electricity	100~240V AC, <30W	5V DC, <20W
ruler inch	260(W)×280(D)×120(H)mm	200(W)×121(D)×65(H)mm
Working temperature	-5~+35 C	
Working humidity	0 to 70%	



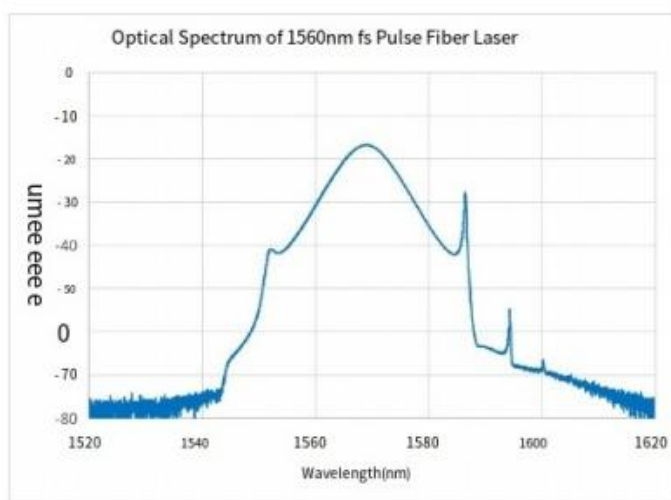
Pulse autocorrelation line



Power stability



Pulse frequency



spectrum

Ordering Information/Model

FLH	Wavelength(nm)	Pulse width(fs)	Average power(mW)	Repetition frequency(MHz)	Output format	Encapsulation form
	1560	50/100/200/50	10/50/10	200/600/100	SM=Single-mode fiberPM=Polariza tion-maintaining fiber	B=desktop M=module