1560nm Femtosecond Fiber Laser

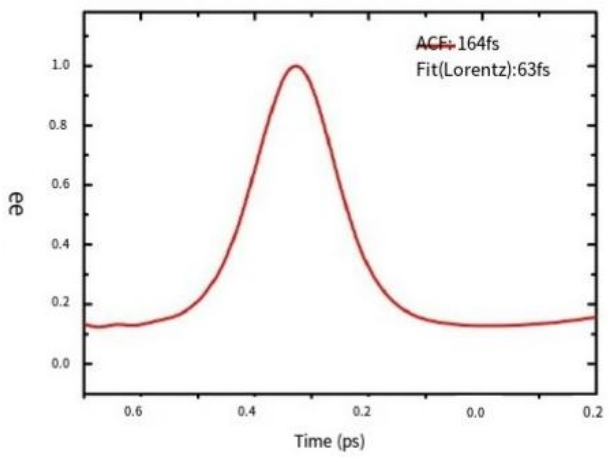
The E-Fiber series ultrafast lasers integrate the latest femtosecond laser technology,using high-performance rare-earth fibers as the working medium and combining high-precision dispersion compensation technology and active servo systems to achieve stable output of femtosecond pulse lasers in the 1560nm band.With one-click self-startup upon power-on,long-term stable operation and maintenance-free,it features extremely narrow laser pulses and high peak pulse power,and is widely applied in optical frequency combs,supercontinuum generation,terahertz(THz)and other fields.

Features
Pulse width < 90 fs
1560 nm band
Self-starting and maintenance-free
Full protection with high stability.

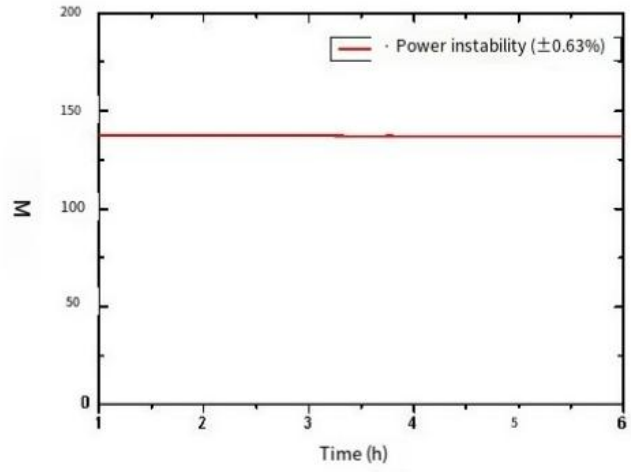
Application
Optical frequency comb Supercontinuum
Terahertz waves
Ultrafast laser phenomena

Optical indicators	unit	Typical value	Note
Central wavelength	nm	1560±30	
Spectral width	nm	≥60	Overall width
Pulse width	fs	<90(typ.60 fs)	
Output power	mW	≥100	
Power instability	-	±1%	
Repetition frequency	MHz	80 to 10	
Instability of repetition frequency	Hz	<100	
Single-pulse energy	nJ	≥1	
polarization state	-	Linear polarization	
Optical fibers and connectors	-	PM1550,FC/APC	Slow-axis alignment
Preheating time	-	<1	

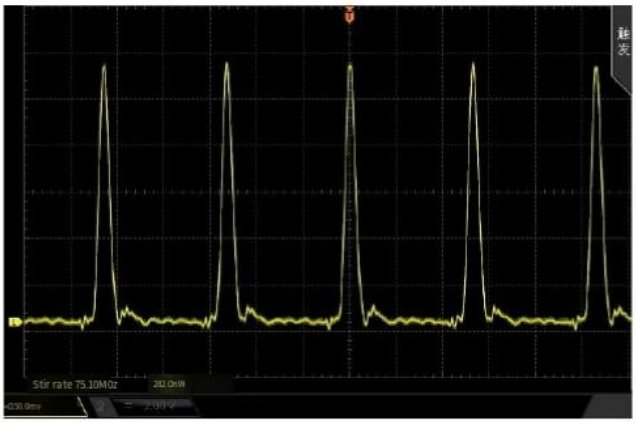
Electrical and environmental parameters	Desktop	Module
Control mode	button	button
Communication interface	SMA	SMA
for Electricity	100~240V AC,<30W	5V DC,<20W
Dimensions(mm)	260(W)×280(D)×120(H)mm	200(W)×121(D)×65(H)mm
Operating temperature range	-5~+35 C	
Working humidity range	0 to 70%	



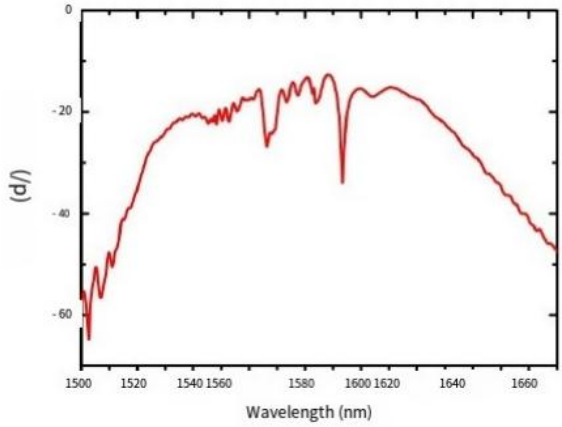
Pulse AC curve



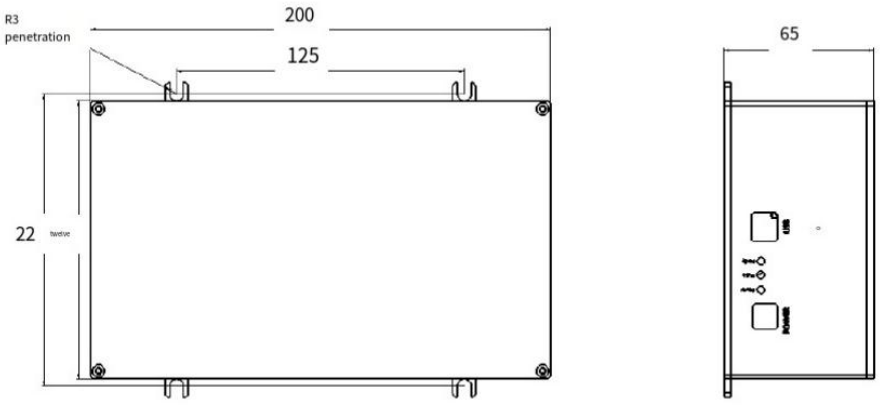
Power stability



Pulse sequence



spectrum



Module dimensions (unit: mm)

Ordering Information/Model						
FSPL	Wavelength(nm))	Output power(mW)	Average power(mW)	Repetition frequency（MHz）	Output format	Encapsulation form
	1560	90	100	80/100	SM=Single-mode fiberPM=Polarization-maintaining fiber	B=desktop M=module