

1560nm high power femtosecond pulse fiber laser



● Product Description

The E-Fiber series of ultrafast lasers integrate the latest femtosecond laser technology, use high-performance rare earth optical fiber as the working medium, and combine high-precision dispersion compensation technology and active servo system to achieve stable output of high-repetition-rate femtosecond pulse lasers in the 1560nm band. It can start automatically with one button, work stably and maintenance-free for a long time, and has the characteristics of extremely narrow laser pulses and high pulse peak power. It has wide applications in optical frequency combs,

supercontinuum, terahertz THz and other fields. * Customization of parameters such as pulse width, power, and repetition frequency is accepted.

- **Product features**

Pulse width 120 fs 、 Average laser power 1 W 、 Self-starting and maintenance-free、 High stability

- **Part Number**

MP-PLS-FS-120-1560-1W-80-FS-B

- **Application area**

Optical frequency comb、 Supercontinuum、 Terahertz wave、 Ultrafast laser phenomenon

- **Core parameters**

Central wavelength	Laser average power	Pulse width	Repetition frequency
1560nm	1W	<120fs	80 MHz

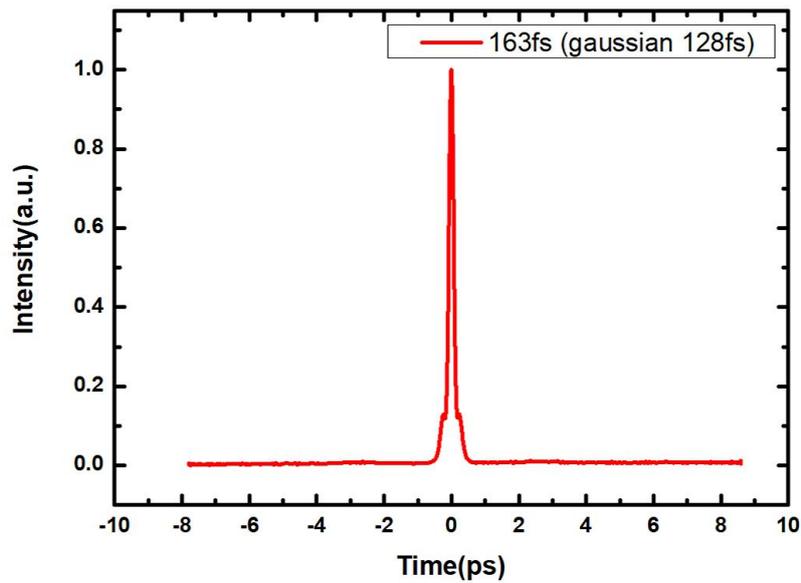
● General Parameters

Parameter

Parameter	Unit	Typical	Notes
Central wavelength	nm	1560 ± 10	
Pulse width	fs	≤ 120	Customizable
Laser average power	W	1	Customizable
Power instability	-	< ± 1%	24h@25°C
Repetition frequency	MHz	80~100	Customizable
Single pulse energy	nJ	> 10	
Laser polarization state	-	Linear polarization, DOP > 20dB	Vertical polarization
Laser output mode	-	Space Light	
Beam quality	-	M ² < 1.2	TEM00
Beam diameter	mm	≤ 1.6	* 1/e ² Waist Diameter
Beam divergence angle	mrad	< 1.5	



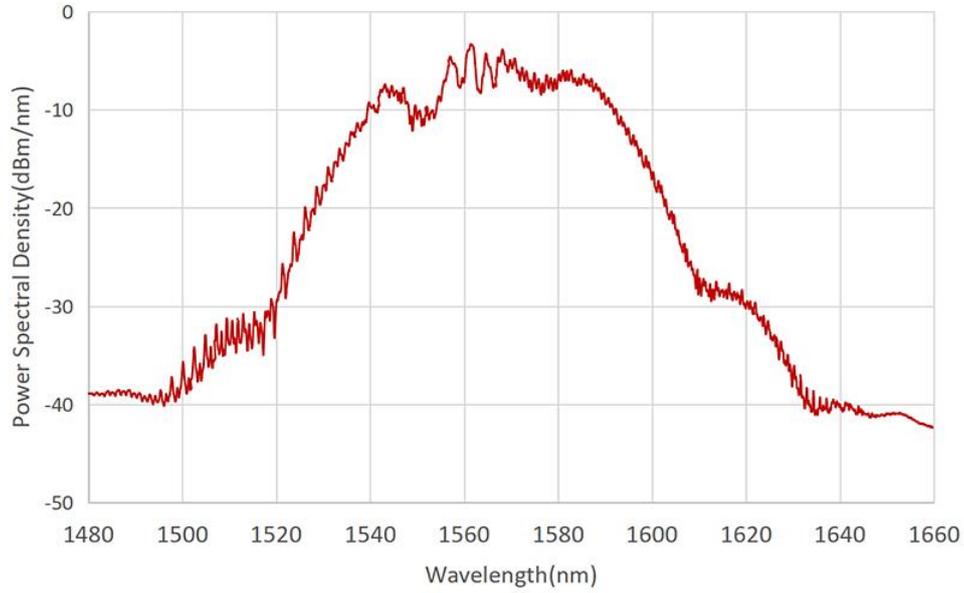
Electrical and environmental parameters	Unit	Typical	Notes
Synchronous electrical signal interface	-	SMA	
Warm-up time	min	<1	
Operating temperature	°C	5 ~ 45	
Power supply	-	AC 110~240VAC	Power consumption<40W
Dimensions	mm	330(W)×398(D)×112(H)	Table Benchtop
Weight	kg	≤5	



Pulse AC Curve



Optical Spectrum of 1560nm fs Pulse Fiber Laser@1W



spectrum



Pulse sequence



Ordering information / PN#						
MP-PL S	wavelength(n m)	Pulse width(fs)	Average power (mW)	Repetitio n rate(MHz)	Output method	Packaging form
	1560	120	1000	80/100	FS= free space optical	B=Benchtop