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

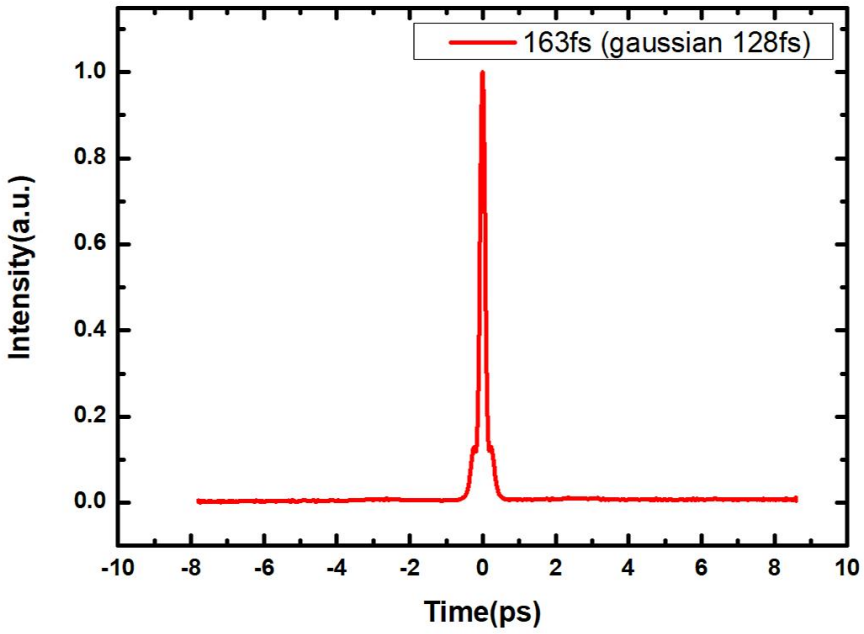
Parameter

Parameter	Unit	Typical	Notes
Central wavelength	nm	1560±10	
Pulse width	fs	⩽120	Customizable
Laser average power	W	1	Customizable

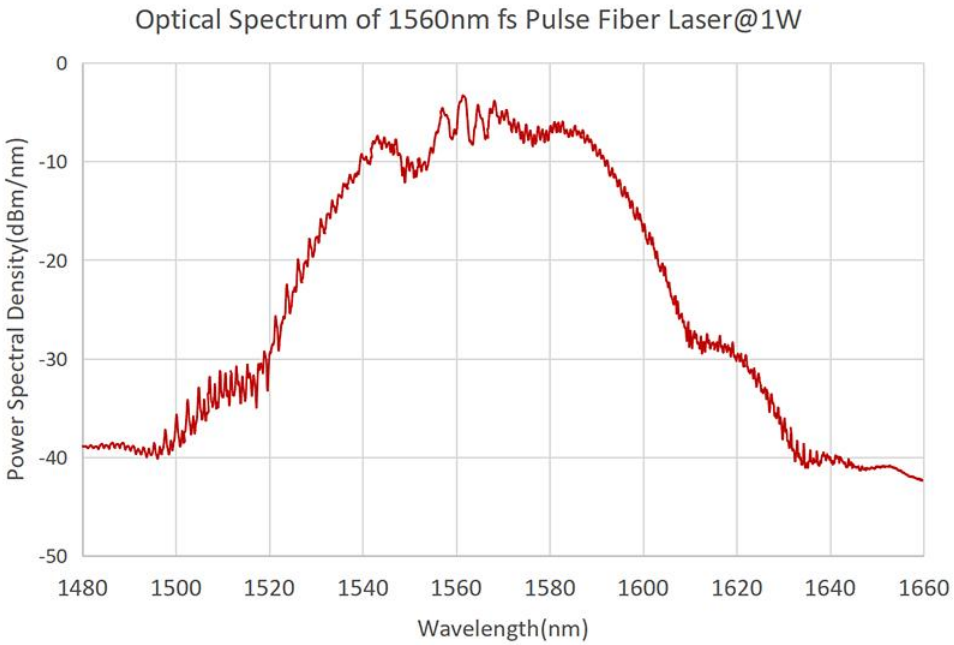
Power instability	-	< ±1%	24h@25°C
Repetition frequency	MHz	80~100	Customizable
Single pulse energy	nJ	>10	
Laser polarization state	-	Linear polarization，DOP>20dB	Vertical polarization
Laser output mode	-	Space Light	
Beam quality	-	M^2<1.2	TEM00
Beam diameter	mm	⩽1.6	* $1/e^2$ Waist Diameter
Beam divergence angle	mrad	<1.5	

Electrical and environmental parameters	Unit	Typical	Notes
Synchronous electrical signal interface	-	SMA	
Warm-up time	min	<1	
Operating temperature	℃	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



spectrum

Pulse sequence

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