



1560nm Femtosecond Pulse Fiber Laser

STFSPL Series



2024 V1

For customized projects please Contact us:

info@simtrum.com

1560nm Femtosecond Pulse Fiber Laser

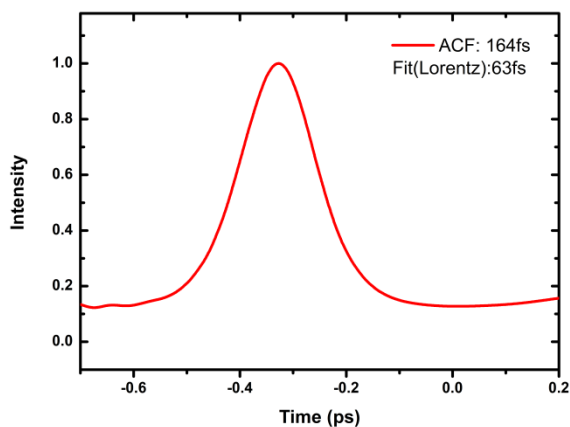
SIMTRUM's STFSP series ultrafast lasers integrate cutting-edge femtosecond laser technology, using high-performance rare earth optical fiber as the medium. Combining high-precision dispersion compensation and an active servo system, these lasers deliver stable femtosecond pulses at 1560nm. Features include one-button automatic start, long-term stable, maintenance-free operation, ultra-narrow pulses, and high peak power. Ideal for optical frequency combs, supercontinuum generation, and terahertz applications. Customizable parameters include pulse width, power, and repetition frequency.

Features

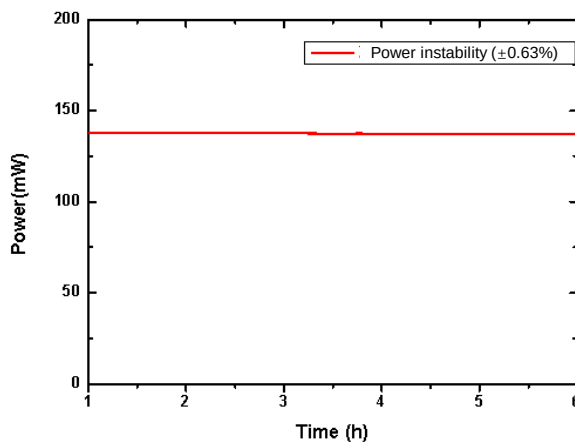
- Pulse width <90 fs
- 1560nm band
- Self-start and maintenance-free
- Full polarization and high stability

Application

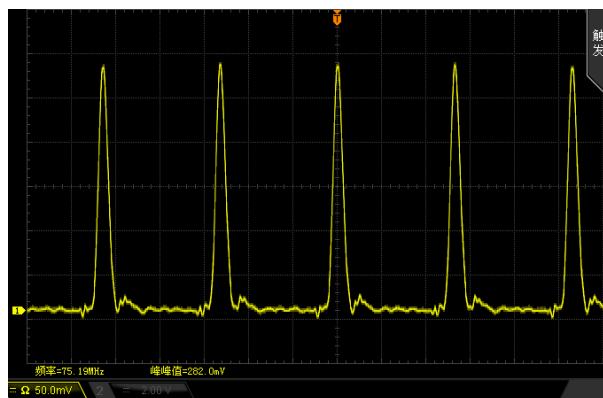
- Optical frequency combs
- Supercontinuum
- Terahertz waves
- Ultrafast laser phenomena



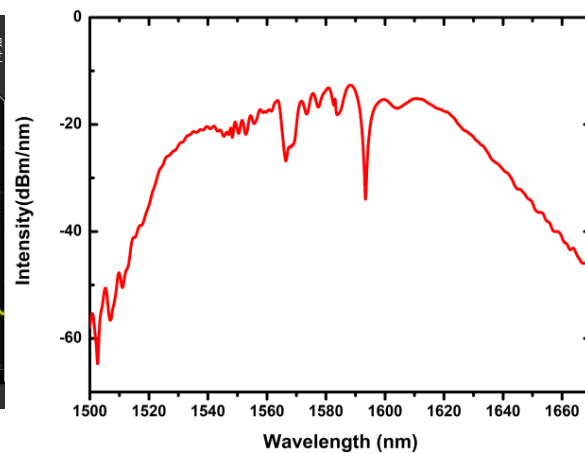
Pulse AC Curve



Power Stability



Pulse Sequence



Spectrum

Specifications

Optical Parameters	Unit	Typical Value	Remark
Center Wavelength	nm	1560±30	
Spectral Width	nm	≥ 60	Overall width
Pulse Width	fs	< 90 (typ. 60fs)	
Output Power	mW	≥ 100	
Power Stability	-	< ±1%	
Repetition Frequency	MHz	80 ~ 100	
Repetition Frequency Stability	Hz	< 100	
Single Pulse Energy	nJ	≥ 1	
Polarization	-	Line polarization	
Optical Mode	-	PM1550, FC/APC	Slow axis aligned
Preheat Time	min	< 1	

General Parameters	Desktop	Module
Control Function	Keystroke	Keystroke
Remote Control Port	SMA	SMA
Power Supply	AC100~240V, <30W	DC5V, <20W
Dimensions	260(W)×280(D)×120(H)mm	200(W)×121(D)×65(H)mm
Operation Temperature	5 ~ 35°C	
Operation Humidity	0~70%	

Ordering Information/Product Code						
Series	Wavelength (nm)	Pulse Width (fs)	Average Power (mW)	Repetition Frequency (MHz)	Fiber	Packaging
STFSPL	1560	90	100	80/100	SM = Single Mode	M - Module
					PM = Polarization Maintaining	B - Desktop

