



1560nm Picosecond Pulse Fiber Laser

STPSPL Series



2024 V1

For customized projects please Contact us:

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1560nm Picosecond Pulse Fiber Laser

SIMTRUM's STPSPL series picosecond pulse fiber lasers use high-performance rare earth fiber as the working medium, combined with high-precision dispersion compensation and an active servo system to achieve stable picosecond pulse output at 1560nm. Featuring one-button startup, long-term stable, maintenance-free operation, narrow laser pulses, and high peak power, these lasers are ideal for applications in optical frequency combs, supercontinuum generation, and terahertz (THz) fields.

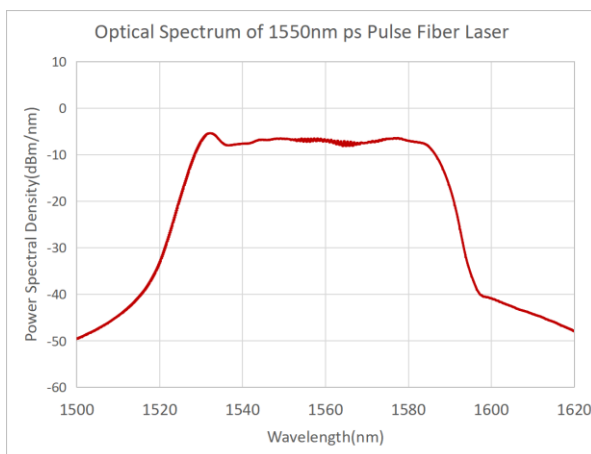
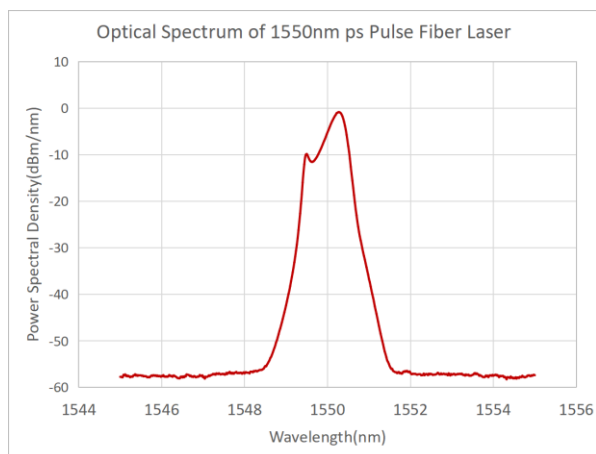
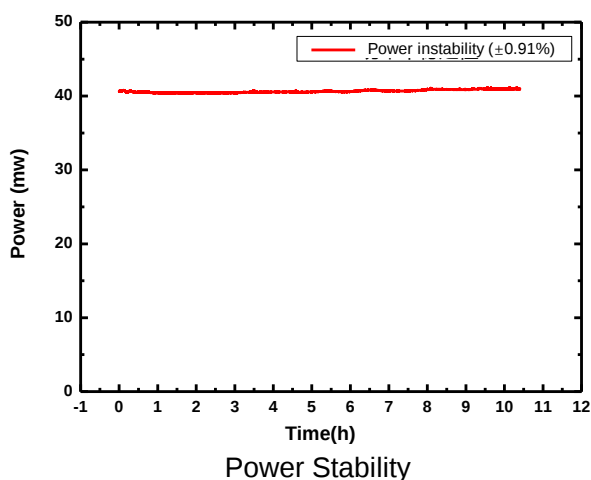
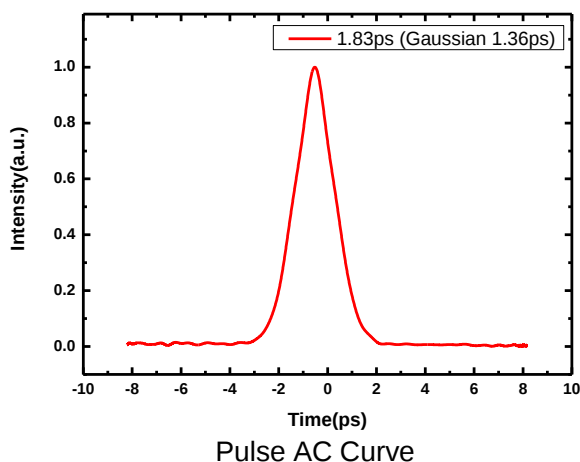
* Customizable parameters include pulse width, power, and repetition frequency.

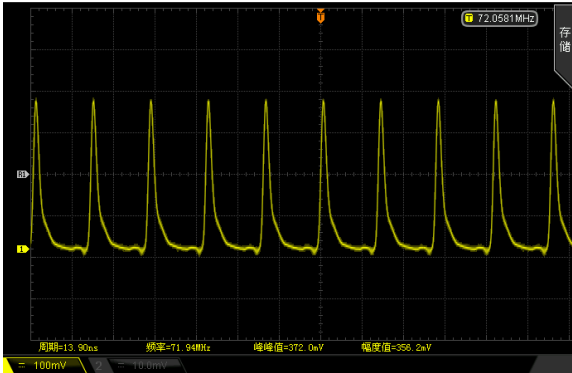
Features

- Pulse width 1~100ps
- Wavelength 1530~1560 nm
- Self-starting and maintenance-free
- Full polarization and high stability

Application

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





Pulse Sequence

Specifications

Optical Parameters	Unit	Typical Value	Remark
Wavelength	nm	1530 ~ 1560	Customizable
Spectral Width	nm	0.5 ~ 50	
Pulse Width	ps	1/10/50/100	Customizable
Output Power	mW	1 ~ 120	Customizable
Power Stability	-	< ±1%	* Optional repetition frequency adjustment function
Repetition Frequency	MHz	20 ~ 100	
Repetition Frequency Stability	Hz	< 100	
Single Pulse Energy	nJ	> 1	
Polarization	-	Line polarization	
Fiber Type & Connector	-	PM1550, FC/APC	Slow axis aligned
Warm-up 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℃	
Operation Humidity	0~70%	

Ordering Information/Product Code						
Series	Wavelength (nm)	Pulse Width (fs)	Average Power (mW)	Repetition Frequency (MHz)	Fiber	Packaging
STPSP1	1560	1/10/50/100	10/50/100	20/80/100	SM = Single Mode	M - Module
					PM = Polarization Maintaining	B - Desktop