# *1030/1064nm Picosecond Fiber Laser*

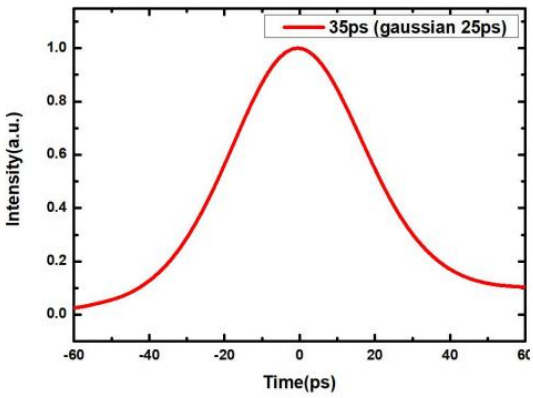
The Y-Fiber series ultrafast lasers utilize high-performance rare-earth fibers as the working medium and integrate all-polarization-maintaining mode-locking technology and an active servo control system to achieve stable output of picosecond pulse lasers in the 1030/1064nm band.They can start up automatically and operate stably for a long time,featuring narrow laser pulses and high peak pulse power.This light source can be applied in scientific research in fields such as high-power lasers,supercontinuum generation,and laser ranging.
Customization is available for parameters such as pulse width,power,and repetition frequency.

**Features**
ultra-short pulse
Self-starting and maintenance-free Full protection with high stability.

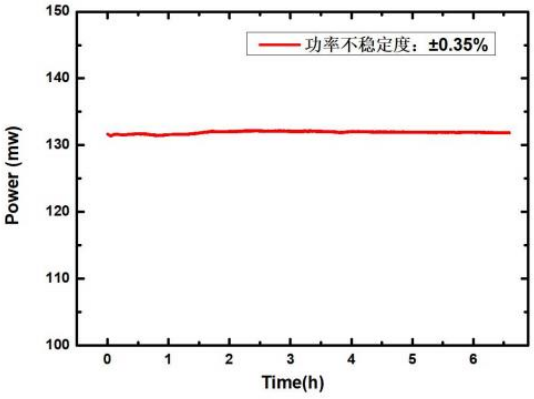
**Application**
Fiber laser pumping
Supercontinuum generation Seed laser pulse

| Optical indicators | unit | Typical value | Note |
|---|---|---|---|
| Central wavelength | nm | 1030/1064 | Customizable |
| Spectral width | nm | 0.3 | Customizable |
| Pulse width | ps | 10/20/50/10 | Customizable |
| Output power | mW | 10 to 200 | Customizable |
| Power instability | - | ±1% | At 25℃,after the machine has been turned on for 5 minutes |
| Pulse basic repetition frequency | MHz | 15 to 10 | The fundamental repetition frequency of the oscillator |
| Adjustable range ofpulse frequency | - | Basic repetition frequency/N | Audio and light frequency reduction,down to a minimum of 1 kHz |
| Single-pulse energy | nJ | >1 | |
| Laser polarization state | - | Linear polarization | |
| Optical fibers and connectors | - | PM980,FC/APC | Slow-axis alignment |
| Preheating time | min | <1 | |

| Electrical and environmental parameters | Desktop | Module |
|---|---|---|
| Control mode | button | button |
| Synchronous telecommunication signal interface | SMA | SMA |
| for Electricity | 100~240V AC,<30W | 5V DC,<20W |
| ruler inch | 330(W)×398(D)×112(H)mm | 200(W)×121(D)×65(H)mm |
| Working temperature | 5~35°C | |
| Working humidity | 0 to 70% | |

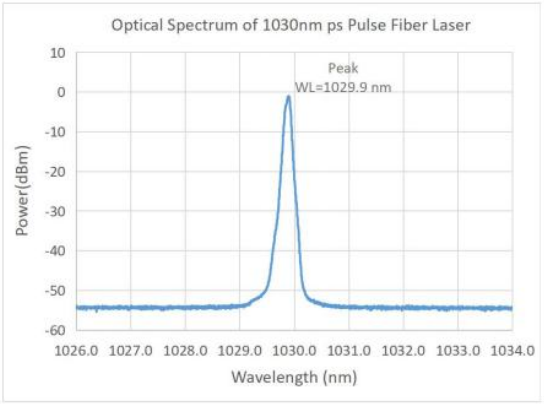



脉冲 AC 曲线

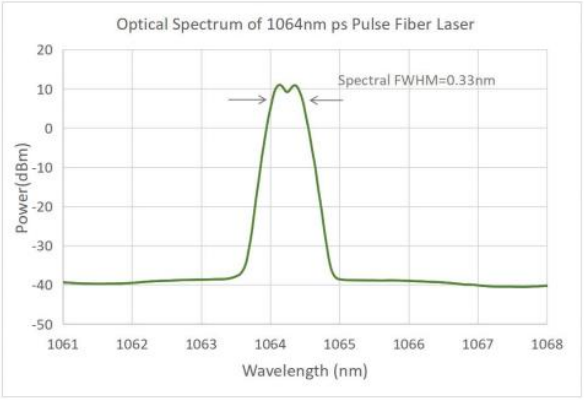



功率稳定性


脉冲序列




1030nm 光谱




1064nm 光谱

| Ordering Information/Model | | | | | | |
|---|---|---|---|---|---|---|
| PSPL | Wavelength (nm) | Pulse width(fs) | Power(mW) | Repetition frequency(MHz) | Output format | Encapsulation form |
| | 1030/1064 | 10/20/50/10 | 10/50/200/200 | 15/50/10 | SM=Single-modefiber PM=Polarization-maintainingfiberFS=Freepace optics | B=desktop M=module |