



1064 nm Ultrafast Picosecond Fiber Laser STP1064ULP



2023 V1

For customized projects please Contact us:

info@simtrum.com

STP1064ULP 1064 nm Ultrafast Picosecond Fiber Laser

STP1064ULP is a Yb-fiber based high-performance ultrafast fiber laser specifically designed for scientific users and has flexible parameters upon user requests. The laser has pulse width of <15ps, repetition rate range between 20~50MHz and an average power up to 1W, the operating wavelength can be customized in the range of 1064 ±2nm.

STP1064ULP is based on SESAM passive locking technology and has an all-PM fiber structure. It uses SIMTRUM Lasers' proprietary optical switch packaging technology and integrates SIMTRUM Lasers' unique "Smart-Lock" processes to ensure long-term stability and reliability. The laser is an easy-to-use turn-key system and can also be computer controlled.

STP1064ULP is well-suited for scientific uses such as high-power laser amplification, super-continuum generation, OPA pumping, time-resolved fluorescence excitation. It can meet a broad range of R&D requirements of the scientific community.

Key Features

- Customizable wavelength
- Picosecond level
- Linear polarization
- Diffraction-limited beam

Applications

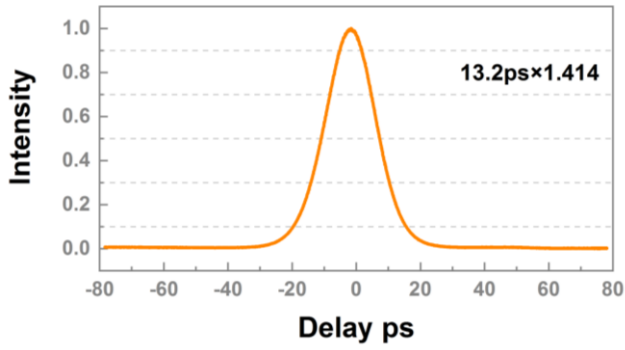
- OAP pump
- Pump-probe
- Laser ranging
- Supercontinuum generation

Main Specification

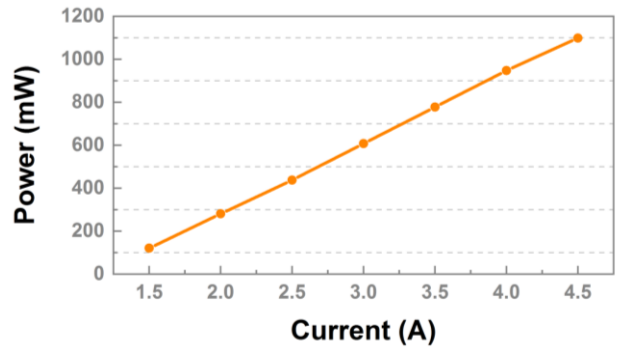
Laser Parameters		
Operating Wavelength	nm	1064 ± 2 nm
Spectral Width	nm	< 1.5 nm
Pulse Width (FWHM)	ps	> 15 ps
Polarization Extinction Ratio	dB	> 20 dB
Repetition Rate	MHz	20-50 MHz (Typical 30 MHz)
Average Power	W	> 1 W
Average Power Stability	% RMS	< 0.5 %RMS (12h@25°C)
Output Fiber		With collimator, spot diameter <2mm
Electrical, Environmental and Mechanical Parameters		
Supply Voltage	VAC	100-240
Operational Temperature Range	°C	15-35
Operational Humidity Range	%	20-80 (non-condensing)
Weight	kg	7
Dimensions	mm (LxWxH)	390 x 297 x 115
Cooling		Air Cooling

Test Data

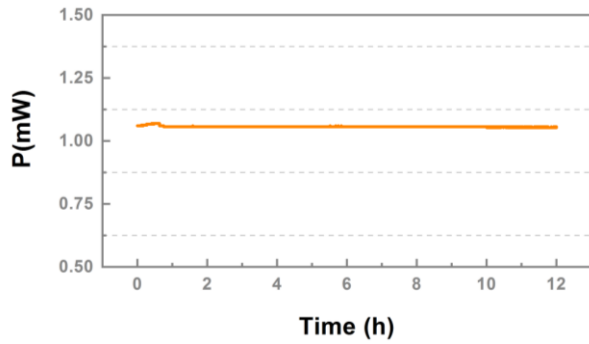
Output Spectrum



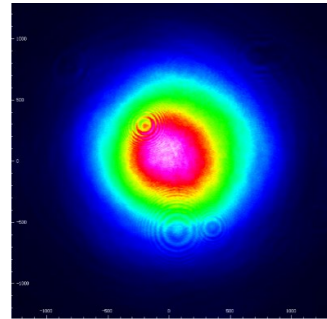
Output Power



Power Stability



Beam Quality



Machine Drawing

