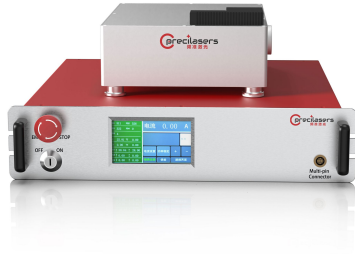


# 1064nm Single frequency nanosecond laser

## ULTRAFAST PULSED LASERS



1064nm Single frequency nanosecond laser Precilasers offers high performance 1064nm narrow linewidth pulse fiber laser, it has very narrow linewidth, high pulse energy and high peak power. The laser can be used in non-linear frequency conversion / micromachining and spectroscopy application. The excellent beam quality and stability of the 1064nm pulse fiber laser ensure the accuracy and repeatability in material processing.

- Compact Design Good Stability
- Excellent Beam Quality

### Specifications

Parameter	FL-SF-NS-1064-x (1)
Center Wavelength	1064.00nm
Seed laser linewidth(100 us integration )	<10kHz
Operational Mode	pulse
Beam Diameter	1.5-1.9mm
Average Power	>0.2W / >0.5W
Repetition Rate	10-100kHz / 10-100kHz
Peak Power	>2kW / >5kW
Pulse Width (2)	10ns
Repetition Frequency (3)	10kHz
Pulse Energy	>20uJ@10kHz / >50uJ@10kHz
Polarization	>20dB
Beam Quality	$M^2 < 1.2$ / $M^2 < 1.3$
Beam Waist Location	output aperture $\pm$ 0.5m
Beam Divergence (full angle)	<2mrad
Beam Circularity	>90%
Beam Pointing Stability (PP)	<10 $\mu$ rad
Power Stability	<1% @3hours, RMS
Cooling	Water cooling
Cold Start	<30minutes
Warm Start	<10 minutes
Controller Size	$\leq$ 483mm x 422mm x 105mm
Laser Head Size	$\leq$ 300mm x 290mm x 76mm
Chiller Size	$\leq$ 58cm x 29cm x 52cm
Laser Head Weight	$\leq$ 10kg
Laser Controller Weight	$\leq$ 25kg
Chiller Weight	$\leq$ 25kg
Cable Length Between Laser Head And Controller	>2m(can be custom made other length)
Operating Temperature (No condensing)	15-35 °C (water cooling)
Power Supply	100V-240V, AC, 50/60Hz

Parameter	FL-SF-NS-1064-x (1)
Communication	RS422

Source: WaveQuanta product database. For ordering, customization (wavelength, power, package) and quotation, contact [sales@wavequanta.com](mailto:sales@wavequanta.com).