

Rainbow 1064 Pro

1064 nm Ultrafast Fiber Laser

Rainbow 1064 Pro is a high-performance medium-power ultrafast fiber laser that features excellent stability and reliability. The laser has pulse width of <15 ps, repetition rate range between 20~50 MHz and an average power >1 W. The pulse duration can be customized upon customer request.

Rainbow 1064 Pro is based on an all-PM fiber structure. It integrates NPI Lasers' unique "Smart-Lock" processes to ensure long-term stability and reliability. With its unrivaled cost-performance ratio, Rainbow 1064 Pro is well-suited for scientific uses such as high-power laser amplification, supercontinuum generation, OPA pumping, time-resolved fluorescence excitation.

Key Features:

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

Applications:

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

Main Specification

Laser Parameters

Central Wavelength	1064±2 nm	Average Power	>1 W
Spectral Width	<1.5 nm	Average Power Stability	<0.5% RMS (12hrs@25°C)
Pulse Width (FWHM)	<15 ps	Polarization Extinction Ratio	>20 dB
Repetition Rate	30 MHz (20-50 MHz optional)	Output Type	With collimator, spot diameter <2 mm

Electrical, Environmental and Mechanical Parameters

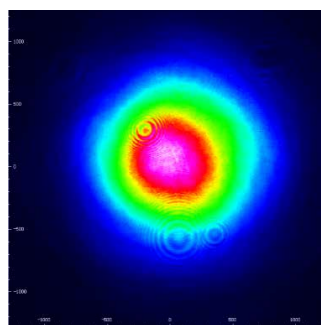
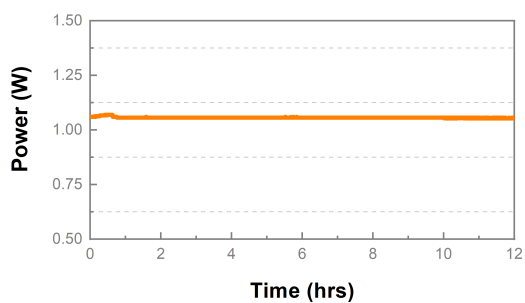
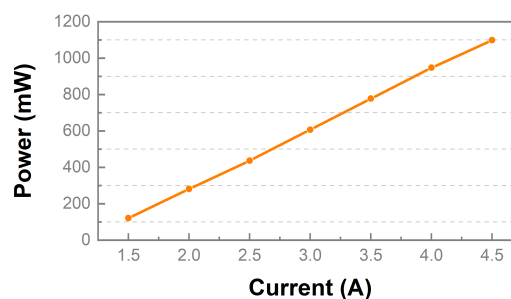
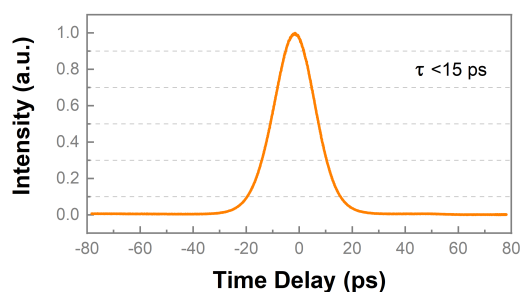
Supply Voltage	100-240 VAC	Dimensions	393×298×115 mm
Operational Temperature Range	15-35°C	Cooling	Air cooling
Operational Humidity Range	20~80% (non-condensing)		



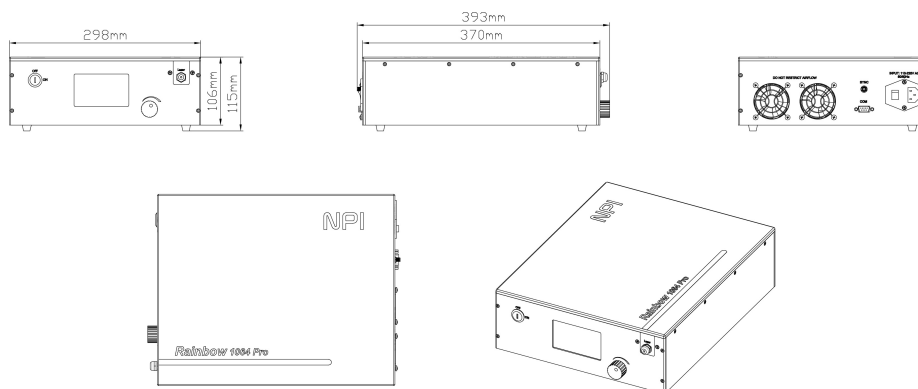
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Test Data



Machine Drawing



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