

PowerWave 2000-ns

2000 nm Nanosecond Fiber Laser

Powerwave 2000-ns is a highly versatile 2um nanosecond pulsed fiber laser for scientific and industrial applications. The laser features modular design and undergoes stringent industrial reliability tests. Typical output specifications of the series include a selectable center wavelength in the range of 1900~2000nm, kHz to MHz repetition rate, and a maximum output power of 10W / pulse energy of 10uJ.

Powerwave 2000-ns is an excellent choice for pumping Mid-IR supercontinuum, and can be used in emerging industrial processings.

Applications :

- Plastic welding and cutting
- Medical surgery
- Solid laser pump source
- Transparent material processing

Main Specification

Laser Parameters

Operating Wavelength	1900-2000 nm	Average Power Stability	<0.5% RMS(24h@25°C)
Pulse Width (FWHM)	>10 ns	Pulse Energy	>10 μJ
Repetition Rate	0.5-2 MHz	Beam Quality	TEM ₀₀ , M ² <1.2
Average Power	10 W	Output Type	Fiber collimator output

Electrical, Environmental and Mechanical Parameters

Power Consumption	<150 Watt	Operational Temperature Range	15-35 °C
Trigger Signal	1 V@50 Ohm	Operational Humidity Range	20-80%
Supply Voltage	100-240 VAC	Dimensions	405×356×91 mm
Weight	20 kg	Cooling	Air-cooled

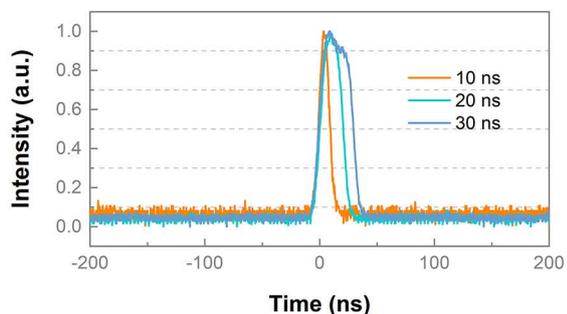


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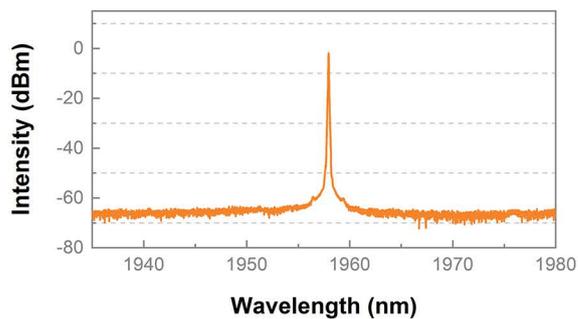
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Test Data

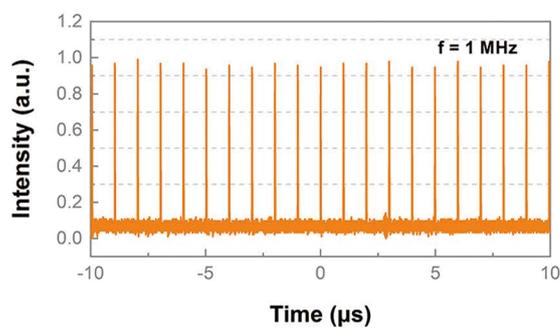
Typical autocorrelation trace



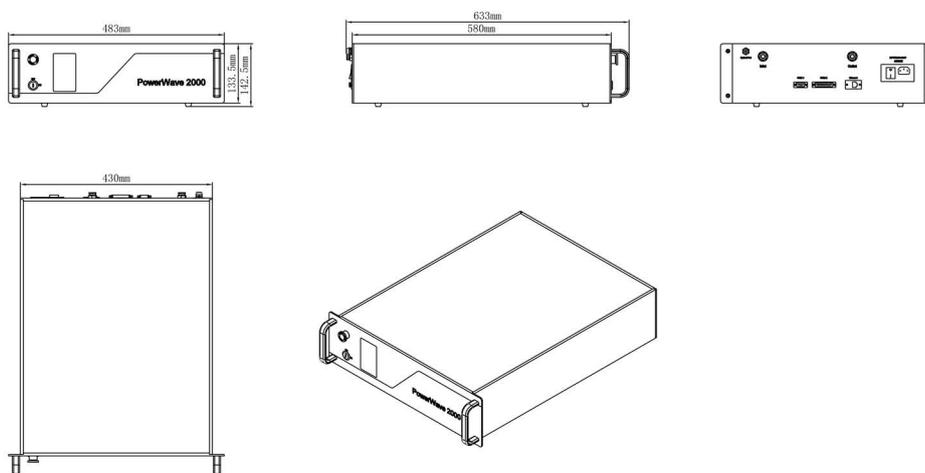
Output spectrum



Repetition Rate



Machine Drawing



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