

PowerWave 2000

2 μm High-power CW Fiber Laser



NPI's 2 μm single wavelength CW fiber laser PowerWave 2000 features excellent output power stability. The output wavelength can be selected in the range of 1900-2050 nm, the maximum output power can reach up to more than 30 W, and polarized output option is available upon request. PowerWave 2000 can be used in scientific research like optical element characterization, mid-infrared spectroscopic analysis and pump source for mid-infrared solid-state laser.

PowerWave 2000 is designed as all optical fiber structure and air cooling system. It has many advantages such as compactness, ease of use, maintenance free, high output power and excellent beam quality. With standard industrial analog control and RS232 interface, it is an ideal choice for OEM as well as industrial applications like biomedical, plastic welding and cutting.

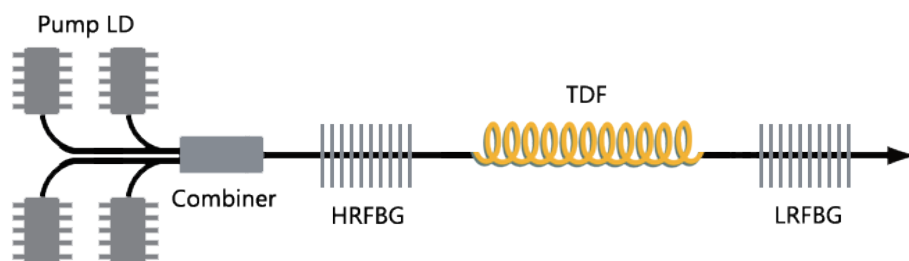
Key Features

- Customized operating wavelength
- Excellent power stability
- Diffraction limited beam
- Tune-key system

Applications

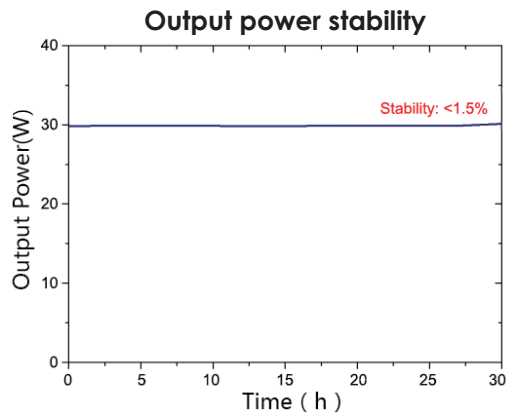
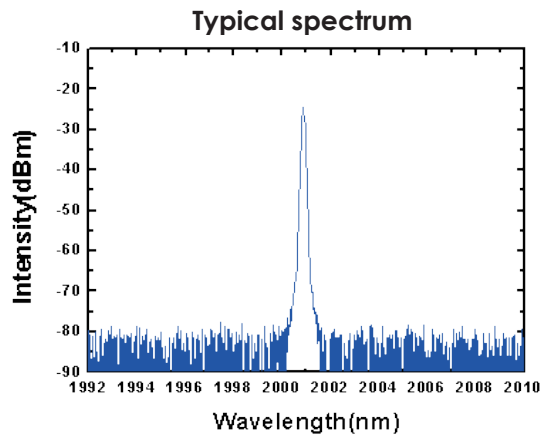
- Plastic welding and cutting
- Medical surgery
- Solid laser pump source
- Transparent material processing
- Spectroscopy

Schematic diagram of structural design :



Main Specification

| Parameter | Performance |
|------------------------------|----------------------------|
| Operating Wavelength | 1900-2050 nm (optional) |
| Spectral Bandwidth | <1 nm |
| Average Output Power | 30 W , 80 W |
| Output Power Stability | <2% (25 °C) |
| Beam Quality, M ² | <1.1 |
| Output Polarization | Random/linear |
| Beam Diameter | 5 mm |
| Operating Temperature | 15-35 °C |
| Power Requirement | AC 100-240 V (50 Hz/60 Hz) |
| Dimensions | 405 mm x 356 mm x 91 mm |
| Weight | 20 kg |
| Output Type | collimated beam |



Machine Drawing

