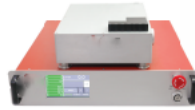




## High power single frequency 1064 nm fiber laser



### 1、 The product description

Erbium group offers a high-power (up to 130 W), low intensity noise, narrow linewidth highly reliable fiber laser for the optical lattice application. It is a combination of an all-fiber Ytterbium amplifier and an ultra-narrow linewidth ECDL laser at 1064 nm . The intensity noise of the laser is  $< -140$  dBc/Hz from 10 kHz to 10 MHz. The full protection system of the laser ensures long-term free of maintenance and long life time. The laser occupies only a The laser is compact and robust, which only occupies an area of 300\*240 mm。

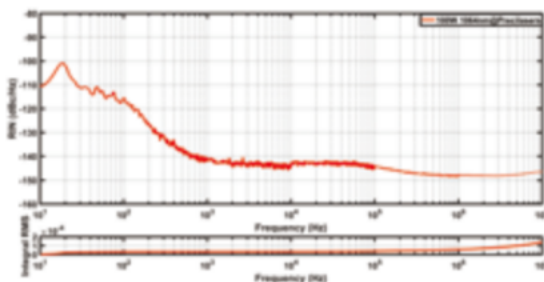
### Key Features:

- Low Intensity Noise(-140 dBc/Hz @100 kHz)
- Narrow Linewidth(<10 kHz)
- Good Beam quality ( $M^2 < 1.2$ )
- High Power (up to 130 W)
- Operation in harsh conditions
- Compact Size

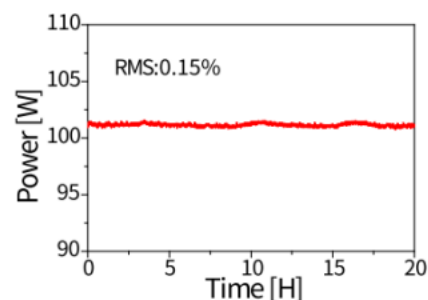
### Applications:

- Pump laser for OPO
- Optical Lattice
- Optical Traps
- Optical Tweezers
- Fundamental laser for 532 nm laser
- Holography & Interferometry
- High Resolution Spectroscopy

Product: YFA-SF-1064-100-CW



Intensity noise test of 100W single-frequency polarization fiber laser at 1064 nm



Power stability test of 100W single-frequency polarization fiber laser at 1064 nm

### 4、 Technical indicators

Model	YFA-SF-XX-YY-ZZ'
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