3000W Fiber Lasers

MODEL:BFL-CW3000

FEASURES

- Low costs and maintainance free

- Excellent power stability

- Higher current-laser transforming efficiency

- Maximum modulated frequency 5kHz

- Optimized processing quality with two optional modes continuous and modulated pulse

- Good beam quality and suitable for precision machining

- Outstanding system reliability

- Simple control interface

APPLICATION

- Precision cutting
- Surface treatment
- 3D printing（SLS/SLM）
- 3D cutting and welding

- Precision welding
- Drilling
- Metal plates processing
- Li battery manufacture

BWT laser 3000W lasers feature high beam quality near diffraction limits for precision materials processing. With two optional modes, continuous mode and pulse mode, HAZ (heat affected zone) can be minimized. The system is designed for outstanding reliability and can be operated in harsh industrial application environment.

BWT laser 3000W fiber lasers are suitable for many applications, such as precision machining, 3D printing, metal plates processing, Li battery soldering, etc. Materials can be processed include steels, aluminum based and nickel based alloys, copper, titanium alloy, ceramics and many others.

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Technical Specification

Optical Character

Power	3000W
Wavelength	1080±10 nm
Pump Wavelength	976nm
Output fiber core diameter	50μm
Cable Length	15m or Customized
Beam Delivery	QBH or Customized
Guide Beam	Red
Operation Mode	Continuous or Modulated
Polarization	Random
Power Stability（25℃）	＜±1.5% (2h)
Power Adjustment Scope	10%-100%
Max. Modulation Frequency	5kHz

Overall size and weights

Weight	＜45Kg
Outline Feature	100mm*482mm*566mm

Electronic Character

Voltage	380±20V,AC,PE,50/60Hz
Power Consumption	9 kW
Control Interface	RS232

Water Cooling Parameters

Mini. Water Cooling Capacity	7 kW
Temperature Settings	25℃(Laser Module), 30℃(QBH)
Cooling Tubes Size (Inner)	19mm
Cooling Water Flux	>30L/min
QBH Cooling Water Flux	1.5~2.0L/min

Dimension