

## Lightning Series Fiber Laser

Model: BFL-CW6000



### FEATURES

- Good beam quality
- Excellent power stability
- Excellent system reliability
- Easy-to-use control interface
- High electro-optical conversion efficiency
- Two operation modes: CW and Modulation
- Max modulation frequency up to 5kHz
- Cost effective and maintenance free

### APPLICATION

- Precision cutting
- Surface treatment
- 3D printing (SLS/SLM)
- Precision welding
- Drilling
- Sheet metal processing

BWT Lightning series fiber lasers have excellent beam quality, and the beam can be focused close to the diffraction limit, which makes them perfect choices for precision processing. The two operation modes, CW and modulation, minimize heat-affected zone. Reliable performance, modular and all-fiber design, and robust case enclosing all optical and electronic components ensure that they can be used under strict industrial conditions.

BTW Lightning series fiber lasers can be used in wide application like precision processing, 3D printing, sheet metal processing, lithium-ion battery manufacturing, etc. The lasers can process various types of metal, including aluminum-based and nickel-based alloys, titanium alloys and alumina ceramics.

BTW professional laser application team, with good knowledge and experience, provides the best laser system solution for our customers all around the world.

## SPECIFICATIONS

<b>Optical Character</b>	
Power	6000W
Wavelength	1080±10 nm
Output Fiber Core Diameter	50, 100 μm
Output Cable Length	20 m or Customized
Output Cable Connector	QBH
Aiming Beam	Red
Operation Mode	CW or modulation
Polarization	Random
Power Stability (25°C)	<±1.5% (2h)
Power Adjustment Scope	10%-100%
Max Modulation Frequency	5kHz
<b>Size and Weight</b>	
Physical Size (H×W×D)	93 mm×482 mm×861 mm
Weight	~67 kg
<b>Electronic Character</b>	
Power Supply	Three Phase, 380±20 V, AC, PE, 50/60 Hz
Power Consumption	18.0 kW
Control Interface	RS232/AD
<b>Water Cooling Parameters</b>	
Minimum Water Cooling Capacity	13.0 kW
Temperature Settings	25°C (Laser Module), 30°C (QBH)
Cooling Tubes Size	I.D. Φ25 mm
Cooling Water Flow Rate (Laser Module)	>55 L/min
Cooling Water Flow Rate (QBH)	1.5~2.0L/min

**DEMINSIONS (mm)**

