

Lightning Series Fiber Laser

Model: BFL-CW3000



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

| Optical Character | |
|--|---|
| Power | 3000W |
| Wavelength | 1080±10 nm |
| Output Fiber Core Diameter | 50 μm |
| Output Cable Length | 15 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 |
| Size and Weight | |
| Physical Size (H×W×D) | 80 mm×482 mm×521 mm |
| Weight | ~33 kg |
| Electronic Character | |
| Power Supply | Three Phase, 380±20 V, AC, PE, 50/60 Hz |
| Power Consumption | 10.0 kW |
| Control Interface | RS232/AD |
| Water Cooling Parameters | |
| Minimum Water Cooling Capacity | 7.0 kW |
| Temperature Settings | 25°C (Laser Module), 30°C (QBH) |
| Cooling Tubes Size | I.D. Φ19 mm |
| Cooling Water Flow Rate (Laser Module) | >25 L/min |
| Cooling Water Flow Rate (QBH) | 1.5~2.0L/min |

DEMINSIONS (mm)

