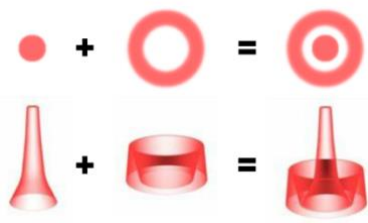




Adjustable Beam Fiber Laser

BFL-AB4000/2000



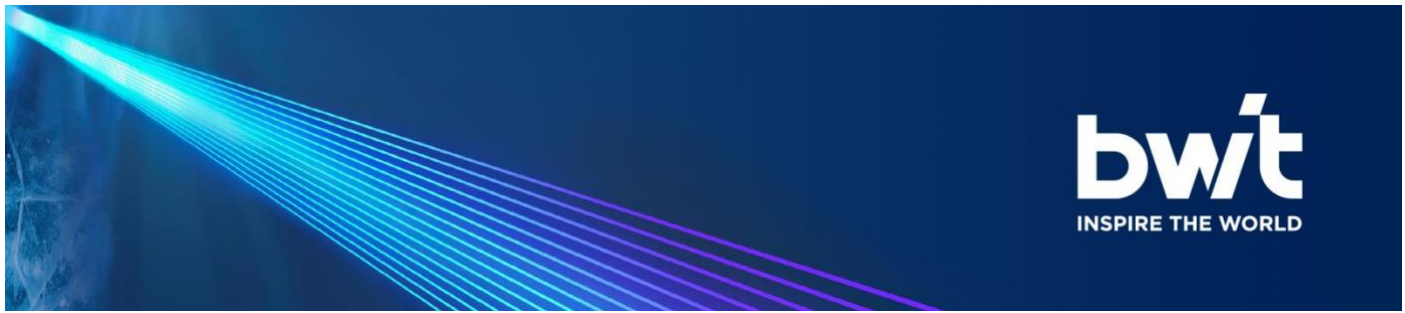
FEATURES:

- ◆ Modular and all-fiber design
- ◆ High electric-optic efficiency
- ◆ Adjustable core and ring power independently
- ◆ Editable output power
- ◆ Good power stability
- ◆ Good system reliability
- ◆ Multi anti-reflective design
- ◆ Maintenance-free operation

BWT AB series adjustable beam fiber lasers output two coaxial laser beams through one single fiber. The core beam and ring beam can be enable separately or simultaneously with independently adjustable power to minimize heat-affected zone. In a welding process, the ring beam stablizes the pool by pre-heating the material before the welding and slowing the cooling after welding, while the core beam forms the keyhole with its high power density, so to get high quality welding seam.

AB series adjustable beam fiber lasers provide more flexibility and possibilities for welding process, which is an effective tool for welding processes in EV battery manufacturing. Comparing with traditional fiber lasers, they can provide stable pool with less splashning, so there is almost no defects or cracks in the seam. The welding is faster and no need for addtional treatment after welding, which highly reduce the cost.

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



Adjustable Beam Fiber Laser

BFL-AB4000/2000

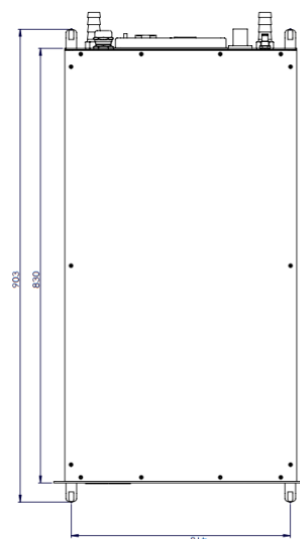
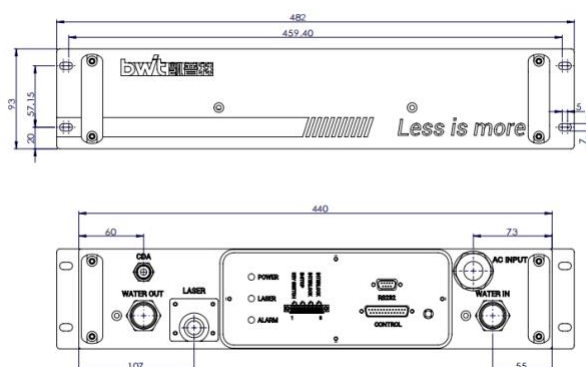
| Optical Character | |
|---------------------------------|---|
| Power | Total power≥6000W, core≥4000W, ring≥2000W |
| Wavelength | 1080±10 nm |
| Output Fiber Core Diameter | Core/Ring 50μm/150μm or customized |
| Output Cable Length | 25m or customized |
| Output Cable Connector | QBH |
| Aiming Beam | Red |
| Operation Mode | CW or modulation |
| Polarization | Random |
| Power Stability (25°C) | < ±1% (2h) |
| Power Adjustment Scope | 10%-100% |
| Max Modulation Frequency | 5kHz |
| Size and Weight | |
| Physical Size (H×W×D) | 93mm*482mm*830mm |
| Weight | ~67 kg |
| Electronic Character | |
| Power Supply | 380±20 V, AC, PE, 50/60 Hz |
| Power Consumption | 18.0 kW |
| Control Interface | RS232/AD |
| Water Cooling Parameters | |
| 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) | > 55 L/min |
| Cooling Water Flow Rate (QBH) | 1.5~2.0L/min |



Adjustable Beam Fiber Laser

BFL-AB4000/2000

DIMENSIONS (mm)



Declaration: information and specifications contained herein are deemed to be reliable and accurate. BWT Tianjin Ltd. reserves the right to change, alter or modify the design and specifications of these products at any time without notice.