

Lightning Series Fiber Laser BFL-CW1500T



FEATURES:

- Good beam quality
- Good power stability
- Good system reliability
- Easy-to-use control

APPLICATION:

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

BWT Lightning series fiber lasers have Good 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.



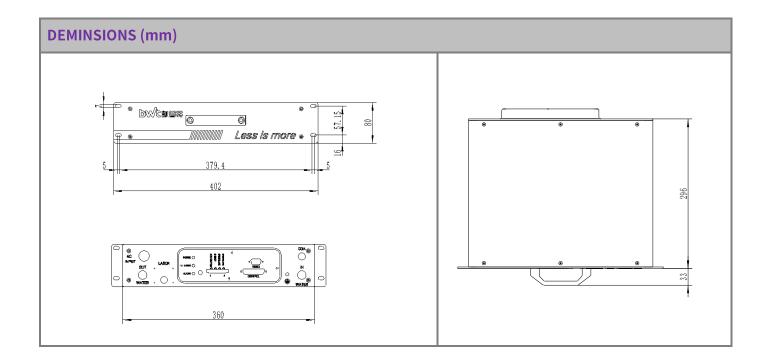
Lightning Series Fiber Laser BFL-CW1500T

Wavelength1080±10 nmOutput Fiber Core Diameter25µm, 50µm or customizedOutput Cable Length12 m, 15m or customizedOutput Cable ConnectorQBHAiming BeamRedOperation ModeCW or modulationPolarizationRandomPower Stability (25°C)<±1.5% (2h)Power Adjustment Scope10%-100%Max Modulation FrequencySkHzSize and Weight15 kgPhysical Size (H×W×D)200±20 V, AC, PE, 50/60 HzPower Supply220±20 V, AC, PE, 50/60 HzPower Consumption4.5 kWControl InterfaceRS232/ADWater Cooling Parameters3.0 kWTemperature Settings22°C (Laser Module), 30°C (QBH)Cooling Tubes SizeO.D. Φ12 mmCooling Water Flow Rate (Laser)>15 L/min	Optical Character	
Output Fiber Core Diameter $25\mum, 50\mum$ or customizedOutput Cable Length12 m, 15m or customizedOutput Cable ConnectorQBHAiming BeamRedOperation ModeCW or modulationPolarizationRandomPower Stability (25°C) $<\pm 1.5\%$ (2h)Power Adjustment Scope10%-100%Max Modulation FrequencySkHzSize and Weight15 kgPhysical Size (H×W×D)80mm*402mm*296mmWeight15 kgElectronic CharacterPower Consumption4.5 kWControl InterfaceRS232/ADWater Cooling ParametersMinimum Water Cooling Capacity3.0 kWCooling Tubes SizeO.D. \$12 mmCooling Tubes SizeO.D. \$15 L/min	Power	1500W
Output Cable Length12 m, 15m or customizedOutput Cable ConnectorQBHAiming BeamRedOperation ModeCW or modulationPolarizationRandomPower Stability (25°C)<±1.5% (2h)	Wavelength	1080±10 nm
Output Cable ConnectorQBHAiming BeamRedOperation ModeCW or modulationPolarizationRandomPower Stability (25°C)<±1.5% (2h)	Output Fiber Core Diameter	25μm, 50μm or customized
Aiming BeamRedOperation ModeCW or modulationPolarizationRandomPower Stability (25°C)<±1.5% (2h)	Output Cable Length	12 m, 15m or customized
Operation ModeCW or modulationPolarizationRandomPower Stability (25°C)<±1.5% (2h)	Output Cable Connector	QBH
PolarizationRandomPower Stability (25°C)<±1.5% (2h)	Aiming Beam	Red
Power Stability (25°C)< ±1.5% (2h)Power Adjustment Scope10%-100%Max Modulation Frequency5kHzSize and WeightSomm*402mm*296mmPhysical Size (H×W×D)80mm*402mm*296mmWeight15 kgElectronic CharacterPower Supply220±20 V, AC, PE, 50/60 HzPower Consumption4.5 kWControl InterfaceRS232/ADWater Cooling ParametersMinimum Water Cooling Capacity3.0 kWTemperature Settings22°C (Laser Module), 30°C (QBH)Cooling Tubes SizeO.D. Ф12 mmCooling Water Flow Rate (Laser)>15 L/min	Operation Mode	CW or modulation
Power Adjustment Scope10%-100%Max Modulation Frequency5kHzSize and Weight5kHzPhysical Size (H×W×D)80mm*402mm*296mmWeight15 kgElectronic CharacterPower Supply220±20 V, AC, PE, 50/60 HzPower Consumption4.5 kWControl InterfaceRS232/ADWater Cooling ParametersMinimum Water Cooling Capacity3.0 kWTemperature Settings22°C (Laser Module), 30°C (QBH)Cooling Tubes SizeO.D. Φ12 mmCooling Water Flow Rate (Laser)>15 L/min	Polarization	Random
Max Modulation Frequency5kHzSize and Weight80mm*402mm*296mmPhysical Size (H×W×D)80mm*402mm*296mmWeight15 kgElectronic CharacterPower Supply220±20 V, AC, PE, 50/60 HzPower Consumption4.5 kWControl InterfaceRS232/ADWater Cooling ParametersMinimum Water Cooling Capacity3.0 kWTemperature Settings22°C (Laser Module), 30°C (QBH)Cooling Tubes SizeO.D. Φ12 mmCooling Water Flow Rate (Laser)>15 L/min	Power Stability (25°C)	<±1.5% (2h)
Size and WeightPhysical Size (H×W×D)80mm*402mm*296mmWeight15 kgElectronic CharacterPower Supply220±20 V, AC, PE, 50/60 HzPower Consumption4.5 kWControl InterfaceRS232/ADWater Cooling ParametersMinimum Water Cooling Capacity3.0 kWTemperature Settings22°C (Laser Module), 30°C (QBH)Cooling Tubes Size0.D. \$	Power Adjustment Scope	10%-100%
Physical Size (H×W×D)80mm*402mm*296mmWeight15 kgElectronic CharacterPower Supply220±20 V, AC, PE, 50/60 HzPower Consumption4.5 kWControl InterfaceRS232/ADWater Cooling ParametersMinimum Water Cooling Capacity3.0 kWTemperature Settings22°C (Laser Module), 30°C (QBH)Cooling Tubes SizeO.D. $\Phi12$ mmCooling Water Flow Rate (Laser)>15 L/min	Max Modulation Frequency	5kHz
Weight15 kgElectronic CharacterPower Supply220±20 V, AC, PE, 50/60 HzPower Consumption4.5 kWControl InterfaceRS232/ADWater Cooling ParametersMinimum Water Cooling Capacity3.0 kWTemperature Settings22°C (Laser Module), 30°C (QBH)Cooling Tubes SizeO.D. Φ12 mmCooling Water Flow Rate (Laser)>15 L/min	Size and Weight	
Electronic Character Power Supply 220±20 V, AC, PE, 50/60 Hz Power Consumption 4.5 kW Control Interface RS232/AD Water Cooling Parameters 3.0 kW Minimum Water Cooling Capacity 3.0 kW Temperature Settings 22°C (Laser Module), 30°C (QBH) Cooling Tubes Size O.D. Φ12 mm Cooling Water Flow Rate (Laser) >15 L/min	Physical Size ($H \times W \times D$)	80mm*402mm*296mm
Power Supply220±20 V, AC, PE, 50/60 HzPower Consumption4.5 kWControl InterfaceRS232/ADWater Cooling ParametersWinimum Water Cooling Capacity3.0 kWTemperature Settings22°C (Laser Module), 30°C (QBH)Cooling Tubes SizeO.D. Φ12 mmCooling Water Flow Rate (Laser)>15 L/min	Weight	15 kg
Power Consumption4.5 kWControl InterfaceRS232/ADWater Cooling ParametersMinimum Water Cooling Capacity3.0 kWTemperature Settings22°C (Laser Module), 30°C (QBH)Cooling Tubes SizeO.D. Φ12 mmCooling Water Flow Rate (Laser)>15 L/min	Electronic Character	
Control InterfaceRS232/ADWater Cooling ParametersMinimum Water Cooling Capacity3.0 kWTemperature Settings22°C (Laser Module), 30°C (QBH)Cooling Tubes SizeO.D. $\Phi12 \mathrm{mm}$ Cooling Water Flow Rate (Laser)>15 L/min	Power Supply	220±20 V, AC, PE, 50/60 Hz
Water Cooling Parameters Minimum Water Cooling Capacity 3.0 kW Temperature Settings 22°C (Laser Module), 30°C (QBH) Cooling Tubes Size 0.D. Ф12 mm Cooling Water Flow Rate (Laser) >15 L/min	Power Consumption	4.5 kW
Minimum Water Cooling Capacity3.0 kWTemperature Settings22°C (Laser Module), 30°C (QBH)Cooling Tubes SizeO.D. $\Phi 12 \text{ mm}$ Cooling Water Flow Rate (Laser)>15 L/min	Control Interface	RS232/AD
Temperature Settings 22°C (Laser Module), 30°C (QBH) Cooling Tubes Size O.D. Φ12 mm Cooling Water Flow Rate (Laser) >15 L/min	Water Cooling Parameters	
Cooling Tubes Size O.D. Φ12 mm Cooling Water Flow Rate (Laser) >15 L/min	Minimum Water Cooling Capacity	3.0 kW
Cooling Water Flow Rate (Laser) >15 L/min	Temperature Settings	22°C (Laser Module), 30°C (QBH)
	Cooling Tubes Size	Ο.D. Φ12 mm
Cooling Water Flow Rate (QBH) 1.5~2.0L/min	Cooling Water Flow Rate (Laser)	>15 L/min
	Cooling Water Flow Rate (QBH)	1.5~2.0L/min



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BFL-CW1500T





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.