

Thunder Series Fiber Laser CWX-60000



### **FEATURES:**

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

#### **APPLICATION:**

- Laser cutting
- Laser welding
- Additive manufacturing
- Sheet metal processing

BWT Thunder series fiber lasers have good beam quality, 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 Thunder series fiber lasers can be used in wide application like precision processing, drilling, sheet metal processing, additive 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.



# **Thunder Series Fiber Laser**

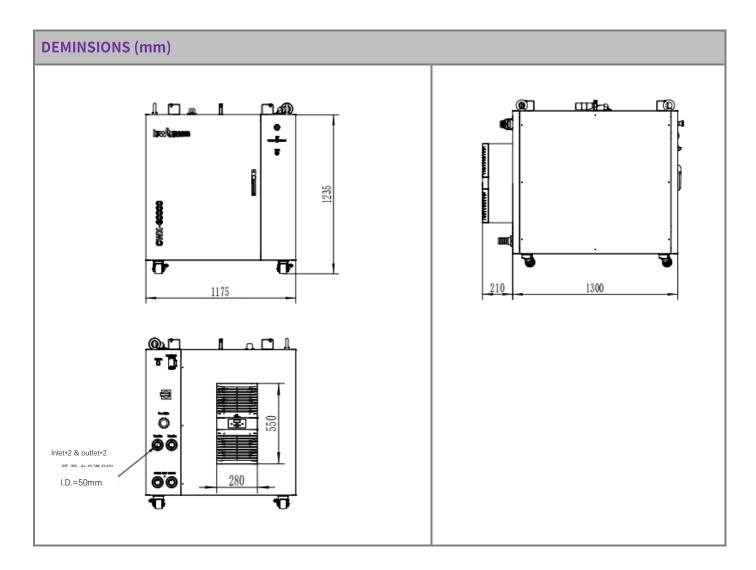
## **CWX-60000**

Power       60000 W         Wavelength       1080±10 nm         Output Fiber Core Diameter       150 µm         Output Cable Length       30 m or customized         Output Cable Connector       QF or QF-D         Aiming Beam       Red         Operation Mode       CW or modulation         Power Stability (25°C)       <±1.5% (2h)         Power Adjustment Scope       10%-100%         Max Modulation Frequency       5kHz         Size and Weight       ~ 850 kg         Physical Size (H×W×D)       1235mm*1175mm*1510mm         Weight       ~ 850 kg         Electronic Character       Power Supply         Power Supply       380±20 V, AC, PE, 50/60 Hz         Power Consumption       200 kW         Control Interface       R\$232/AD         Water Cooling Parameters       № 120 kW	Optical Character	
Output Fiber Core Diameter150 μmOutput Cable Length30 m or customizedOutput Cable ConnectorQF or QF-DAiming BeamRedOperation ModeCW or modulationPolarizationRandomPower Stability (25°C)<±1.5% (2h)Power Adjustment Scope10%-100%Max Modulation Frequency5kHzSize and Weight~850 kgPhysical Size (H×W×D)1235mm*1175mm*1510mmWeight~850 kgElectronic Character200 kWPower Consumption200 kWControl InterfaceRS232/ADWater Cooling Parameters		60000 W
Output Cable Length30 m or customizedOutput Cable ConnectorQF or QF-DAiming BeamRedOperation ModeCW or modulationPolarizationRandomPower Stability (25°C)<±1.5% (2h)	Wavelength	1080±10 nm
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Aiming BeamRedOperation ModeCW or modulationPolarizationRandomPower Stability (25°C)<±1.5% (2h)	Output Cable Length	30 m or customized
Operation ModeCW or modulationPolarizationRandomPower Stability (25°C)<±1.5% (2h)	Output Cable Connector	QF or QF-D
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 WeightPhysical Size (H×W×D)1235mm*1175mm*1510mmWeight~850 kgElectronic CharacterPower Supply380±20 V, AC, PE, 50/60 HzPower Consumption200 kWControl InterfaceRS232/ADWater Cooling Parameters	Operation Mode	CW or modulation
Power Adjustment Scope10%-100%Max Modulation Frequency5kHzSize and Weight5kHzPhysical Size (H×W×D)1235mm*1175mm*1510mmWeight~ 850 kgElectronic CharacterPower Supply380±20 V, AC, PE, 50/60 HzPower Consumption200 kWControl InterfaceRS232/ADWater Cooling Parameters	Polarization	Random
Max Modulation Frequency5kHzSize and Weight5kHzPhysical Size (H×W×D)1235mm*1175mm*1510mmWeight~ 850 kgElectronic CharacterPower Supply380±20 V, AC, PE, 50/60 HzPower Consumption200 kWControl InterfaceRS232/ADWater Cooling Parameters	Power Stability (25°C)	<±1.5% (2h)
Size and WeightPhysical Size (H×W×D)1235mm*1175mm*1510mmWeight~850 kgElectronic CharacterPower Supply380±20 V, AC, PE, 50/60 HzPower Consumption200 kWControl InterfaceRS232/ADWater Cooling Parameters	Power Adjustment Scope	10%-100%
Physical Size (H×W×D)       1235mm*1175mm*1510mm         Weight       ~850 kg         Electronic Character          Power Supply       380±20 V, AC, PE, 50/60 Hz         Power Consumption       200 kW         Control Interface       RS232/AD         Water Cooling Parameters	Max Modulation Frequency	5kHz
Weight       ~ 850 kg         Electronic Character         Power Supply       380±20 V, AC, PE, 50/60 Hz         Power Consumption       200 kW         Control Interface       RS232/AD         Water Cooling Parameters       Kater Cooling Parameters	Size and Weight	
Electronic Character         Power Supply       380±20 V, AC, PE, 50/60 Hz         Power Consumption       200 kW         Control Interface       RS232/AD         Water Cooling Parameters       Control Interface	Physical Size ( $H \times W \times D$ )	1235mm*1175mm*1510mm
Power Supply380±20 V, AC, PE, 50/60 HzPower Consumption200 kWControl InterfaceRS232/ADWater Cooling Parameters	Weight	~ 850 kg
Power Consumption     200 kW       Control Interface     RS232/AD       Water Cooling Parameters     Control Interface	Electronic Character	
Control Interface RS232/AD Water Cooling Parameters	Power Supply	380±20 V, AC, PE, 50/60 Hz
Water Cooling Parameters	Power Consumption	200 kW
	Control Interface	RS232/AD
Minimum Water Cooling Capacity ≥ 120 kW	Water Cooling Parameters	3
	Minimum Water Cooling Capacity	≥ 120 kW
Temperature Settings   22°C (Laser Module), 30°C (QF/QF-D)	Temperature Settings	22°C (Laser Module), 30°C (QF/QF-D)
Cooling Tubes Size I.D. Φ50 mm, ×2	Cooling Tubes Size	I.D. Φ50 mm, ×2
Cooling Water Flow Rate (Laser) 600 L/min	Cooling Water Flow Rate (Laser)	600 L/min
Cooling Water Flow Rate (QF/QF-D) 3.0 L/min	Cooling Water Flow Rate (QF/QF-D)	3.0 L/min
Cooling Water Flow Rate (Cable) 1.5 L/min	Cooling Water Flow Rate (Cable)	1.5 L/min



## **Thunder Series Fiber Laser**

**CWX-60000** 





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.