



CWX-80kW Fiber Laser

BWT Thunder series fiber lasers have excellent 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.



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YouTube

Features

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

Application

Cutting	Welding
Surface treatment	Drilling
Additive manufacturing	Sheet metal processing

Specifications

Optical Character	
Power	80kW
Wavelength	1080±10 nm
Output Fiber Core Diameter	150 μm
Output Cable Length	25 m or customized
Output Cable Connector	QF or QF-D
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 (W×D×H)	1550 mm×1300 mm×1260 mm
Weight	< 800 kg
Electronic Character	
Power Supply	Three Phase, 380±20 V, AC, PE, 50/60 Hz
Power Consumption	260.0 kW
Control Interface	RS232/AD
Water Cooling Parameters	
Minimum Water Cooling Capacity	>180.0 kW
Temperature Settings	25°C (Laser Module), 30°C (QF)
Cooling Tube Size	I.D. Φ50 mm*2
Cooling Water Flow Rate (Laser Module)	>720 L/min
Cooling Water Flow Rate (QF)	6.0L/min

External structure size

