Lightning Series Fiber Laser

BFL-CW500T



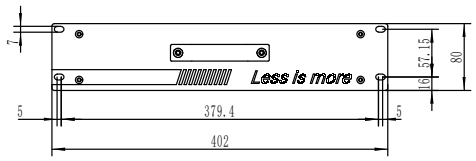
Features:

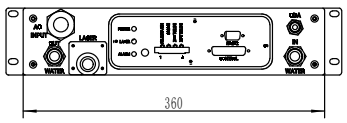
- Good beam quality M^2 < 1.1
- QBH or QCS options
- Excellent power stability
- Excellent system reliability
- Fast response

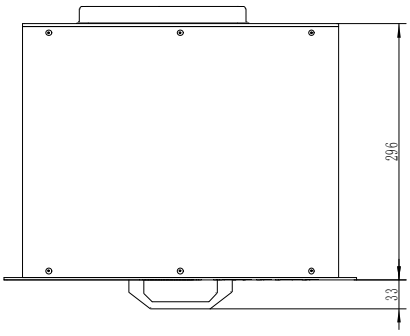
Applications:

- 3D printing (SLS/SLM)
- Precision welding
- Photovoltaic cracking

Package Dimensions (mm)







Hyperline 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.

Hyperline Lightning series fiber lasers can be used in wide application like precision processing, laser cleaning, 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.

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Specifications		Unit	Typical
Optical Data	Output Power	W	500
	Wavelength	nm	1080±10
	Fiber Core Diameter	μm	14
	Fiber Length	m	5
	Beam Quality	-	M^2 < 1.1
	Fiber Connector	-	QBH or QCS
	Aiming Beam	-	Red
	Polarization	-	Random
	Power Stability（25℃）	-	< 2%（2h）
	Power Adjustment Scope	-	10-100%
Electrical Data	Operation Mode	-	CW or Modulation
	Max Modulation Frequency	kHz	50
	Response Time	μs	≤20
	Power Supply	-	Single Phase, 200-240V, AC, PE, 50/60Hz
	Power Consumption	kW	1.5
	Control Interface	-	RS232/AD
Mechanical Data	Laser Size	mm	80H*402W*296D
	Laser Weight	kg	15
Cooling Data	Min Water Cooling Capacity	kW	1.5
	Temperature	℃	Laser 25℃, QBH 30℃
	Cooling Tubes Size （O.D.）	mm	ϕ12
	Cooling Water Flow Rate (Laser)	L/min	> 6
	Cooling Water Flow Rate (QBH)	L/min	1.5~2

Declaration : information and specifications contained herein are deemed to be reliable and accurate. Hyperline reserves the right to change, alter or modify the design and specifications of these products at any time without notice.26-07

