

500W Blue Laser System

BDL-CW500-EU-200



Features:

- 445nm wavelength
- 500W output power
- 200μm fiber core diameter
- 0.22 NA

Applications:

- High-reflection metal welding
- 3D Printing
- Medical

Specifications (25°C)		Unit	BDL-CW500-EU-200
Optical Data ⁽¹⁾	CW Output Power	W	500
	Center Wavelength	nm	445
	Wavelength Range	nm	±20
	Output Power Stability	%	±3 (2 hours)
	Power Range	%	10~100
Fiber Data	Core Diameter	μm	200
	Numerical Aperture	-	0.22
	Fiber Length	m	5
	Fiber Connector	-	QBH
Electrical Data	Input Voltage	V	AC 220±20 (50-60Hz)
	Power Consumption	kW	<2.5
	Operation Mode	-	CW/Pulse
	Control Mode	-	RS232, I/O
	Modulation Frequency	Hz	10k
	Modulation Duty Cycle	-	5%-100% (Minimum pulse width 20us)
Aiming Beam Data ⁽²⁾	Wavelength	nm	635±10
	Output Power	mW	≤2
Mechanical Parameter	Dimensions (L×W×H)	mm	650*482*133
	Weight	kg	≤45
Others	Cooling Method	-	Water Cooling
	Cooling Capacity	kW	≥2
	Cooling Water Temperature	°C	25±5
	Water Discharge	L/min	Laser system: ≥15 , QBH: 1.5~2
	Pipe Diameter(External)	mm	16
	Ambient Temperature ⁽³⁾	°C	10~40
	Storage Temperature ⁽³⁾	°C	-10~50
	Relative Humidity	%	10~70
	Safety Class	-	4 (EN 60825-01)

(1) Data measured under the operating condition with a power output of 500W at 25°C.

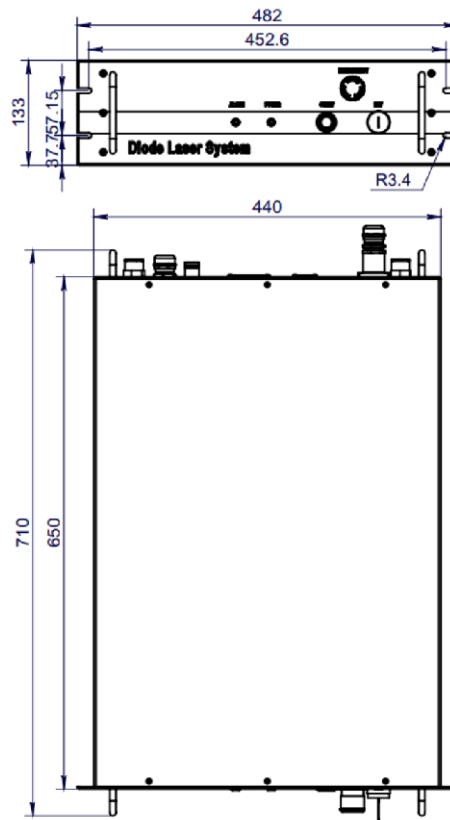
(2) The aiming beam can be customized according to customer requirements;

(3) A non-condensing environment is required for operation and storage.

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Package Dimensions (mm)



OPERATING NOTES

- Avoid eye and skin exposure to direct radiation during operation.
- Before the laser device starts operating, make sure that the fiber output end surface has been properly cleaned. Please follow the safety protocol to avoid getting injured.
- The laser should be operated according to the specifications; maximum optical power should not be exceeded.
- Operation temperature ranges from 20°C to 30°C .
- Storage temperature ranges from -10°C to +50°C.