



Features:

- ♦ 445nm wavelength
- ♦ 1000W output power
- ♦ 200μm fiber core diameter
- ♦ 0.22 NA

Applications:

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

Blue Laser System RPKBDL-CW1000-E200

Specifications (25℃)		Unit	RPKBDL-CW1000-E200
Optical Data ⁽¹⁾	CW Output Power	W	1000
	Center Wavelength	nm	445
	Wavelength Range	nm	±20
	Output Power Stability	%	±3 (2h)
	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 380±20 (50-60Hz)
	Power Consumption	kW	<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	750*482*178
	Weight	kg	<40
Others	Cooling Method	-	Water Cooling
	Cooling Capacity	kW	≥4
	Cooling Water Temperature	℃	25±5
	Water Discharge	L/min	Laser System: ≥30 , QBH: 1.5~2
	Pipe Diameter(Internal)	mm	19
	Ambient Temperature ⁽³⁾	℃	10~40
	Storage Temperature ⁽³⁾	℃	-10~50
	Relative Humidity	%	10~70
	Safety Class	-	4 (EN 60825-01)

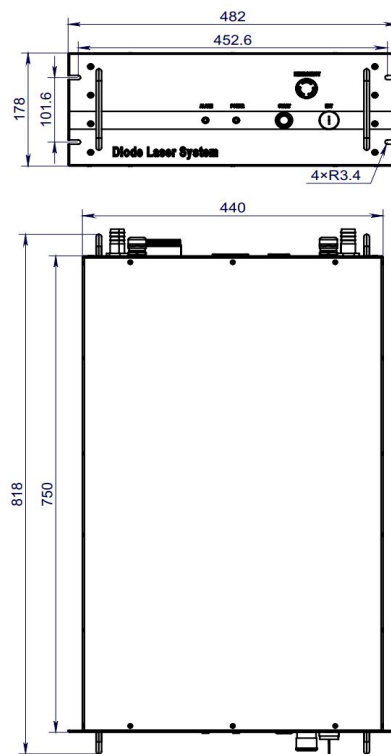
(1) Data measured under the operating condition with a power output of 1000W at 25℃;

(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℃ to 30℃ .
- ◆ Storage temperature ranges from -10℃ to +50℃.



Declaration: information and specifications contained herein are deemed to be reliable and accurate. BWT Beijing reserves the right to change, alter or modify the design and specifications of these products at any time without notice.25-02