bwt 凯普林
INSPIRE THE WORLD

FEATURES

- **Low cost**
- **Maintenance free operation**
- **Excellent power stability**
- **Convenient control interface**
- **Modulation frequency up to 5kHz**
- **High wall-plug efficiency**
- **Outstanding reliability**

APPLICATION

- **Welding**
- **Cladding**
- **Surface treatment**
- **Li battery manufacture**

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Compared with traditional lasers, BWT's 500W blue laser has a higher absorption rate for materials such as copper and aluminum and can realize the processing of non-ferrous metals with lower power. Its structure is compact and easy to use. Because of its flexible laser delivery method, it can be easily integrated with system equipment.

It can be applied to metal welding, industrial cladding, quenching, material processing, laser research, etc. BWT has engineers proficient in laser applications and systems who can provide you with professional application solutions.

Technical Specification

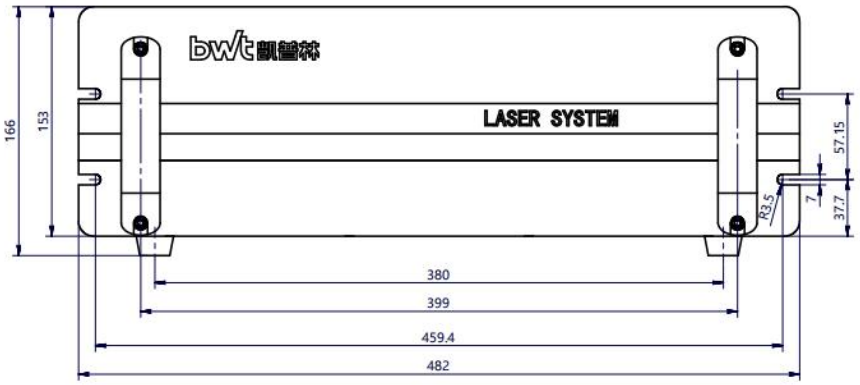
Optical Character

Power	500W
Wavelength	915 / 976nm
Output Fiber Core Diameter	330μm
Cable Length	10m or Customized
Beam Delivery	QBH
Guide Beam	Red
Operation Mode	Continuous or Modulated
Polarization	Random
Power Stability (25 °C)	＜3% (2h)
Power Adjustment Scope	10%-100%
Max Modulation Frequency	5kHz

Overall size and weights

Weights	＜35Kg
Outline Feature	153 mm*482mm*378mm
Electronic Character	
Voltage	Single Phase, 220±20V, AC, PE, 50/60Hz
Power Consumption	2.4 kW
Control Interface	RS232
Water Cooling Parameters	
Minimum Water Cooling Capacity	1.5 kW
Temperature Settings	25 °C (Laser Module), 30 °C (QBH)
Cooling Tubes Size (External)	Φ12mm
Cooling Water Flux	>6L/min
QBH Cooling Water Flux	1.5~2.0L/min

Note: The back reflection will affect the performance and life of the direct diode laser. It is necessary to use the output laser when it is 8 ° – 10 ° away from the vertical direction of the surface.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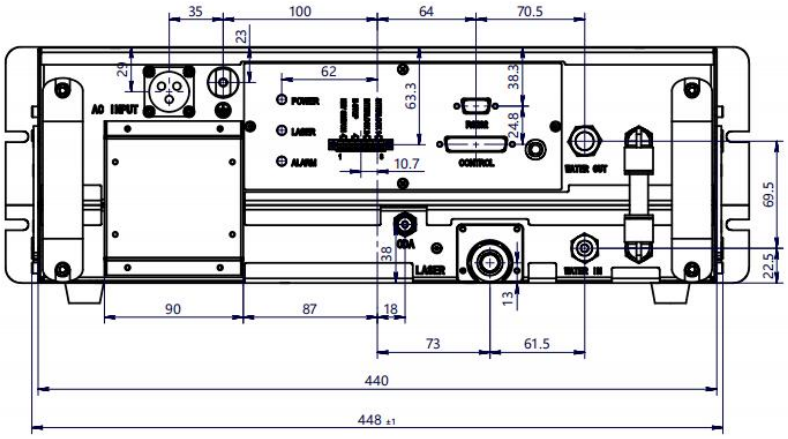
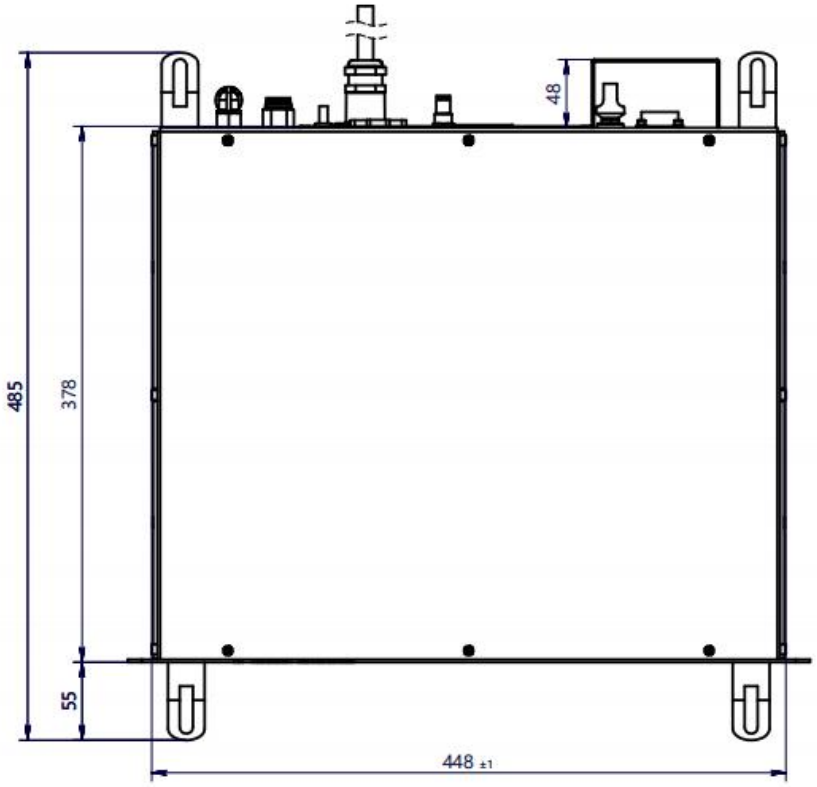
LASER SYSTEM
166
153
57.15
7
37.7
R3.5
380
399
459.4
482


35
100
64
70.5
23
29
62
63.3
38.3
24.8
10.7
AC INPUT
POWER
LASER
ALARM
CONTROL
69.5
22.5
38
13
90
87
18
73
61.5
440
448 ±1


48
485
378
55
448 ±1