969nm 1000W Direct Diode Laser System

BDL-CW1000-FL (Standard Product)



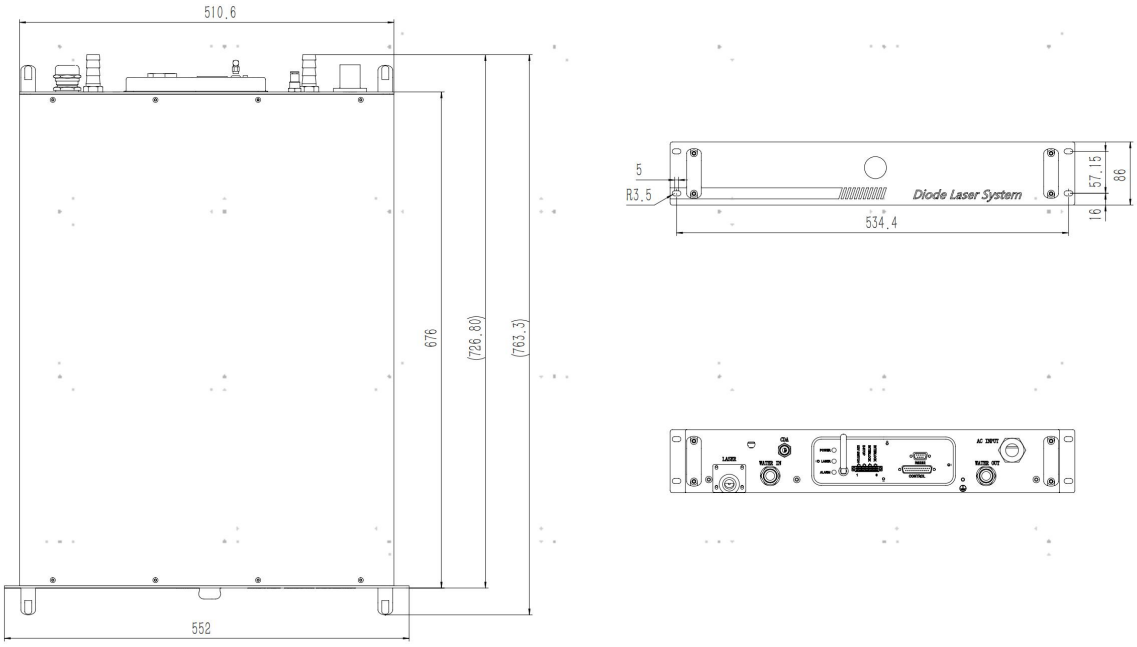
Features:

- Good power stability
- Good system reliability
- Easy-to-use control

Applications:

- Laser pump
- Scientific research

Package Dimensions (mm)



OPERATING NOTES

- Avoid eye and skin exposure to direct radiation during operation.
- 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 8-10degree away from the vertical direction of the surface.
- Before operating the laser, ensure that the fiber output end is properly cleaned.
- Operate within the rated current and power levels.
- Ensure proper cooling during operation.

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Optical Characteristics	
Power	1000W
Wavelength	969±0.5nm
Wavelength Locking Range	50%Iop~100%Iop @CW mode@25℃
Output Fiber Core Diameter	600 μm, 800 μm, 1000 μm or Customized
Output Cable Length	5m
Output Cable Connector	QBH
Aiming Beam	Red
Operation Mode	CW or modulation
Polarization	Random
Power Stability (25℃)	＜±1.5% (2h)
Power Adjustment Scope	10%-100%
Max Modulation Frequency	5kHz
Dimensions and Weight	
Dimensions (H×W×D)	86mm*552mm*676mm
Weight	< 70 kg
Electrical Characteristics	
Power Supply	Single Phase, AC220±20V（50/60Hz）
Power Consumption	3kW
Control Interface	RS232, I/O
Water Cooling Parameters	
Minimum Water Cooling Capacity	2 kW
Temperature Settings	25±1℃ (Laser Module), 30℃ (QBH)
Cooling Tubes Size	O.D. Φ19 mm
Cooling Water Flow Rate (Laser Module)	>12 L/min
Cooling Water Flow Rate (QBH)	1.5~2L/min

(1) Data measured under operation output at nominal output power@25℃.

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

(3) Operating temperature defined by the package case. Acceptable operating range is 24℃~26℃, but performance may vary.

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.26-09