

DS3 Fiber Coupled Diode Laser Subsystem DS3-51522-LD NO.



Features:

- 976nm wavelength or Customized
- 50W output power
- 105/200µm core diameter
- 0.22NA

Applications:

- Plastic welding
- 3D Printing
- Soldering

BWT, founded in 2003, is committed to the mission of "let the dream drive the light", the vision of becoming the "Global leader in laser solutions", and the value of "Outstanding innovation", providing diode laser, fiber laser, ultra-fast laser products and solutions to global customers.

The company pursues continuous innovation and insists on autonomous and controllable advanced pr ocess and technology. With Beijing headquarters as the core, BWT has successively established productio n and R&D centers in Jiangsu, Shanghai and Shenzhen, and invested in the construction of intelligent and digital production base in Tianjin. In order to build the world's highest level of technical strength and product quality, BWT set up a German subsidiary in 2020, introducing European quality standards, and taking a sol id step for the internationalization of R&D, production and technological innovation.

Up to now, BWT has traded more than 10 million lasers worldwide. BWT's products are available in more than 70 countries and regions, applications involving industry, medical, commercial, scientific research, information and many other fields.

Version number	Change content	Change date
1.0	First edition	2021.09.17

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CW Output Power W Center wavelength nm	50
Center wavelength nm	
	976±10
Optical Data ⁽¹⁾ Spectral width(FWHM) nm	< 6
Wavelength shift with temperature nm/°C	0.3
Output power instability (25°C) %	±3 (5 hours)
Power Range %	10~100
Core diameter µm	105/200
Fiber Data ⁽¹⁾	0.22
Fiber length m	2-10
Fiber termination -	SMA905 / Customized
Power supply V	100~240(50-60Hz)
Power consumption W	<400
Drive mode -	Constant current
	or Modulated 1 Hz to 20kHz,
Electrical Data Control mode -	Touch screen, RS232, I/O
Modulation frequency Hz	1~20K (DC>0.01%)
Modulation Pulse Width - 20µs -950m	ns (Pulse)/20µs-999ms (Single Pulse)
Modulation Rise/Fall Time (Min. Value) µs	≤10
Center wavelength nm	635±10nm
Aiming Beam Data ⁽²⁾ CW Output Power mW	2
Mechanical Dimensions (L×W×H) ⁽³⁾ mm	S size 260*360*125
Parameters Weight kg	<15
Cooling method -	Air cooling
Storage temperature ⁽⁴⁾ °C	5~50
Temperature Ambient in Operation ⁽⁴⁾ °C	15~30
Others Cooling requirement	Air cooling
Relative Humidity %	5~80
Safety class -	4 (EN 60825-01)

(1) Consult BWT for other available options.

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

(3) The mechanical dimensions depends on the laser power and cooling mode.

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

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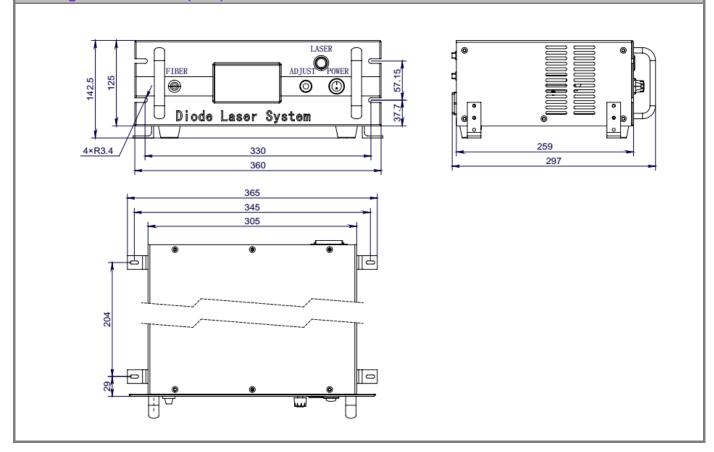
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Package Dimensions (mm)-- S size



OPERATING NOTES

• Avoid eye and skin exposure to direct radiation during operation.

• Make sure the fiber output end is properly cleaned before operation of laser. Follow safety protocols to avoid injury when handling and cutting the fiber.

- ♦ Laser diode must be used according to the specifications.
- ◆ Temperature Ambient in Operation ranges from 15°C to 30°C.
- ◆ Storage temperature ranges from 5°C to 50°C.



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