

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



Features:

- 976nm wavelength or Customized
- 100W output power
- 200µm core diameter
- 0.22NA
- Multiple optional cabinet size

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 production and R&D centers in Jiangsu and Shenzhen, and invested in the construction of intelligent and digital production base in Tianjin. To bulid a high level of technical strength and product quality, BWT set up a German subsidiary in 2020, and taking a solid step for the internationalization of R&D, production and technological innovation.

Version number	Change content	Change date
1.0	First edition	2021.09.17



DS3 Fiber Coupled Diode Laser System

DS3-51522-LD NO.

Specifications (25°C)		Unit	DS3-51522-LD
Optical Data ⁽¹⁾	CW Output Power	W	100
	Center wavelength	nm	976±10
	Spectral width(FWHM)	nm	< 6
	Wavelength shift with temperature	nm/°C	0.3
	Output power instability $(25^{\circ}C)$	%	±3 (5 hours)
	Power Range	%	10~100
Fiber Data ⁽¹⁾	Core diameter	μm	200
	Numeric aperture	-	0.22
	Fiber length	m	2/Customized
	Fiber termination	-	SMA905 / Customized
Electrical Data	Power supply	V	100~240(50-60Hz)
	Power consumption	W	<400
	Drive mode	-	Constant current
	Emission mode	-	CW or Modulated 1 Hz to 20kHz,
	Control mode	-	Touch screen, RS232, I/O
	Modulation frequency	Hz	1~20K (DC>0.01%)
	Modulation Pulse Width	-	20µs -950ms (Pulse)/20µs-999ms (Single Pulse)
	Modulation Rise/Fall Time (Min. Value)	μs	≤10
Aiming Beam Data ⁽²⁾	Center wavelength	nm	635±10nm
	CW Output Power	mW	2
Mechanical	Dimensions (L×W×H) ⁽³⁾	mm	M size 387*373*153
Parameters	Weight	kg	<10.2
Others -	Cooling method	-	Air cooling
	Storage temperature ⁽⁴⁾	°C	5~50
	Temperature Ambient in Operation ⁽⁴⁾	°C	15~30
	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.

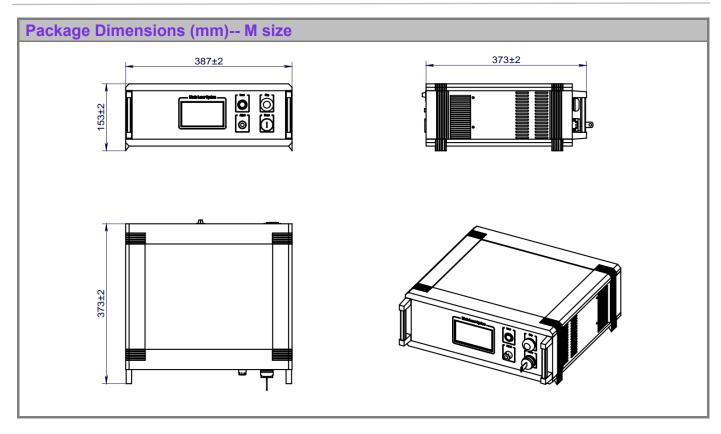
(3) The mechanical dimensions depends on the laser power and cooling mode.

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



DS3 Fiber Coupled Diode Laser System

DS3-51522-LD NO.



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.



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.21-10