

DS3 Fiber Coupled Diode Laser System

DS3-51512-LD NO.



Features:

- ◆ 976nm wavelength or Customized
- ◆ 300W output power
- ◆ 200μm core diameter
- ◆ 0.22NA
- ◆ Multiple optional cabinet size

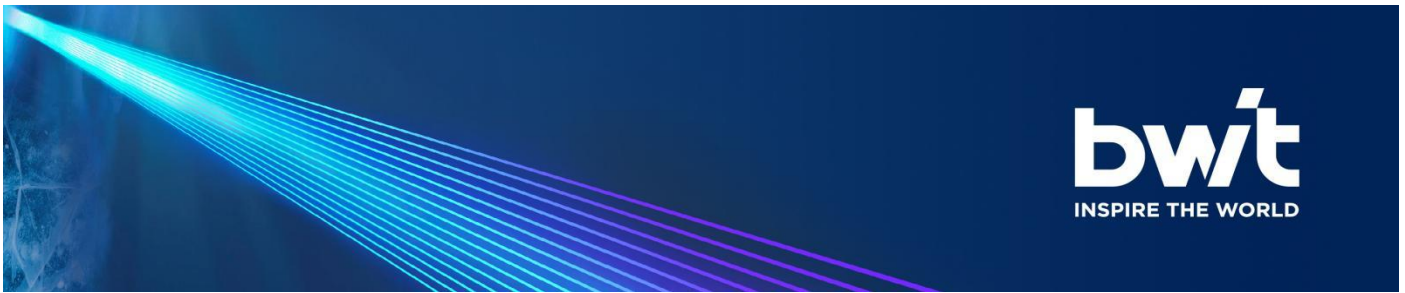
Applications:

- ◆ 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 process 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 an intelligent and digital production base in Tianjin. To build 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	2022.12.21



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Specifications (25°C)		Unit	DS3-51512-LD
Optical Data ⁽¹⁾	CW Output Power	W	300
	Center wavelength	nm	976±10
	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
Fiber Data ⁽¹⁾	Core diameter	µm	200
	Numeric aperture	-	0.22
	Fiber length	m	5 / Customized
	Fiber termination	-	D80/ Customized
Electrical Data	Power supply	V	200~240 (50-60Hz)
	Power consumption	W	<1000
	Drive mode	-	Constant current
	Emission mode	-	CW or Modulated 1 Hz to 20kHz,
	Control mode	-	RS232, I/O
	Modulation frequency	Hz	1~20K (DC>0.01%)
	Modulation Pulse Width	-	20µs -950ms (Pulse)
Aiming Beam Data ⁽²⁾	Modulation Rise/Fall Time (Min. Value)	µs	≤10
	Center wavelength	nm	635±10nm
Mechanical Parameters	CW Output Power	mW	2
	Dimensions (L×W×H)	mm	L size 482*429*155
Others	Weight	kg	<17
	Cooling method	-	Air cooling
	Storage temperature ⁽³⁾	°C	5~50
	Temperature Ambient in Operation ⁽³⁾	°C	15~30
	Cooling requirement	-	Air cooling: Leave 10cm of space on the outside of the fan
	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.

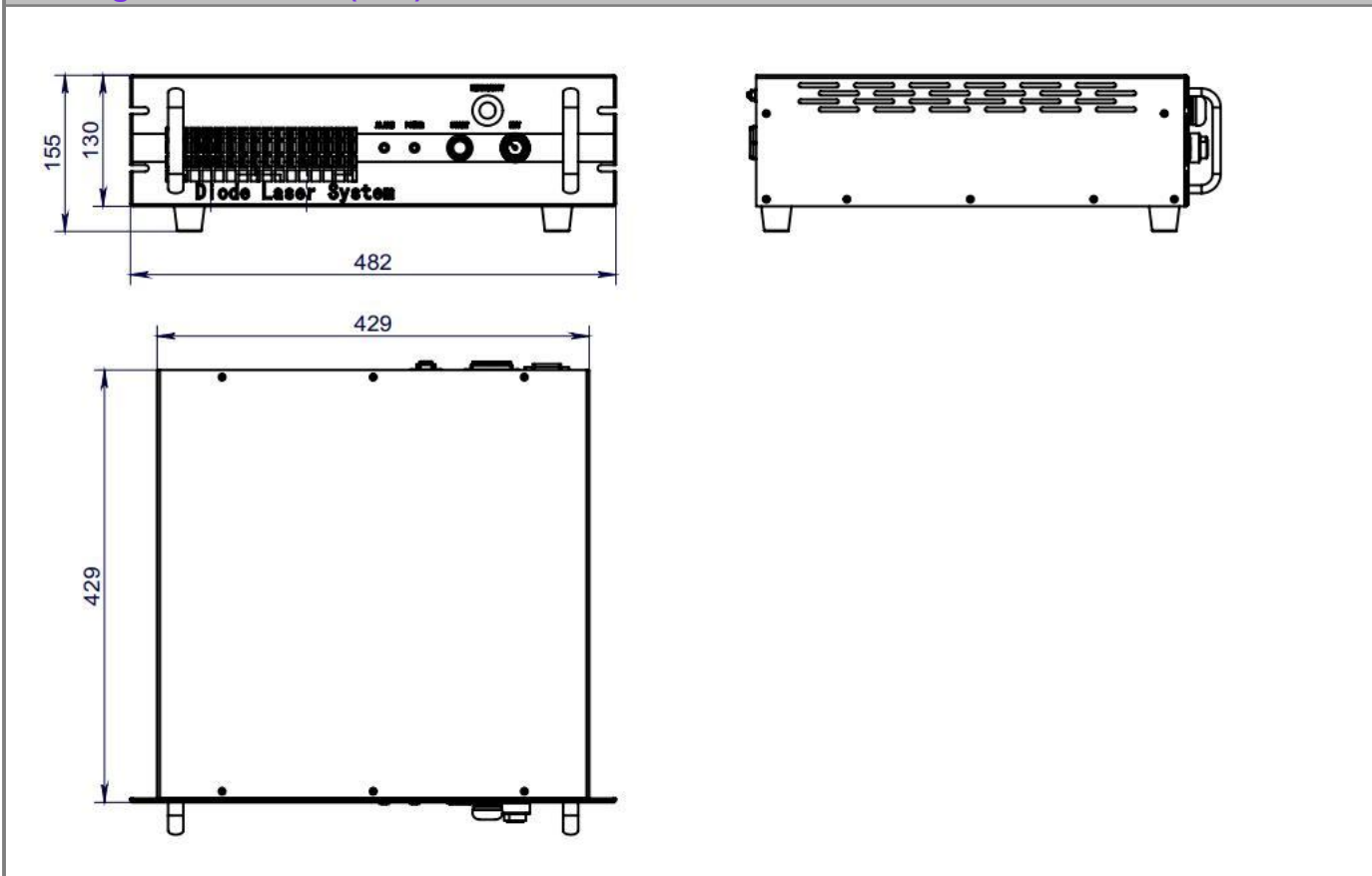
(3) A non-condensing environment is required for operation and storage



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Package Dimensions (mm)-- L 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.



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.22-12