



**Features :**

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

**Applications:**

- ◆ Plastic welding
- ◆ 3D Printing
- ◆ Soldering

**DS3 Fiber Coupled Diode Laser System**

**RDS3-51524-LD NO.**

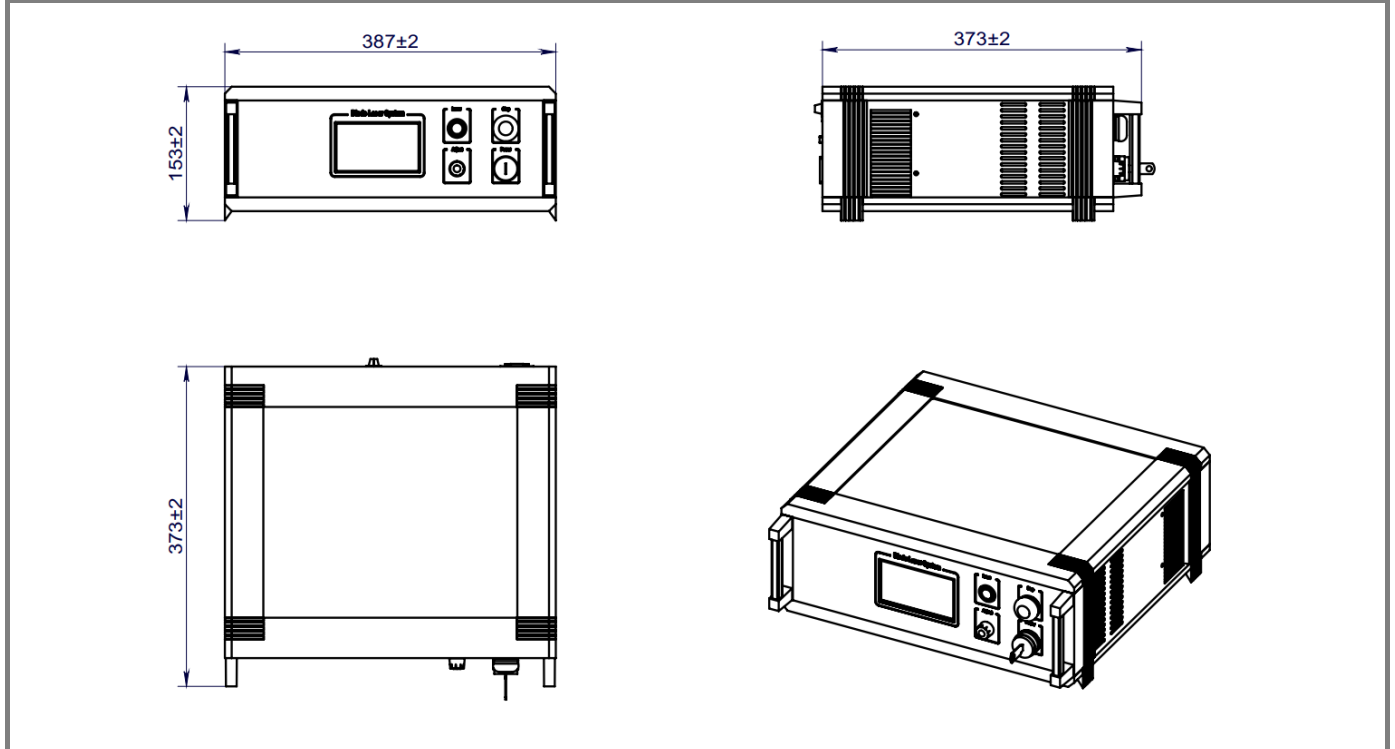
| Specifications (25°C)                 |   | Unit  | RDS3-51524-LD NO.   |
|---------------------------------------|---|-------|---|
| <b>Optical Data<sup>(1)</sup></b>     | CW Output Power                                 | W     | 300   |
|                                       | Center wavelength                               | 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  |
| <b>Fiber Data<sup>(1)</sup></b>       | Core diameter                                   | µm    | 200   |
|                                       | Numeric aperture                                | -     | 0.22  |
|                                       | Fiber length                                    | m     | 2/Customized  |
|                                       | Fiber termination                               | -     | SMA905 / Customized   |
| <b>Electrical Data</b>                | Power supply                                    | V     | AC100~240 ( 50-60Hz )   |
|                                       | Power consumption                               | W     | <1000   |
|                                       | 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   |
| <b>Aiming Beam Data<sup>(2)</sup></b> | Center wavelength                               | nm    | 635±10nm  |
|                                       | CW Output Power                                 | mW    | 2   |
| <b>Mechanical Parameters</b>          | Dimensions (L×W×H)                              | mm    | M size 387*373*153  |
|                                       | Weight  | kg    | <10.2   |
| <b>Others</b>                         | Cooling method                                  | -     | Water cooling   |
|                                       | Storage temperature <sup>(3)</sup>              | °C    | 5~50  |
|                                       | Temperature Ambient in Operation <sup>(3)</sup> | °C    | 15~30   |
|                                       | Cooling requirement                             | -     | Water cooling: temperature 20 - 25<br>Quick coupling: 2* 12 water inlet and outlet interface<br>Circulating water flow 7L / min |
|                                       | 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.

## DS3 Fiber Coupled Diode Laser System

RDS3-51524-LD NO.

### Package Dimensions (mm)-- M 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.21-09