



RDS3 Fiber Coupled Diode Laser System

RDS3-51522-RGB

Features :

- ◆ 445nm+525nm+638nm wavelength
- ◆ Total 22W output power
- ◆ 400μm core diameter,0.22NA
- ◆ Multi-wavelength output

Applications:

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

Specifications (25°C)		Unit	RDS3-51522-RGB
Optical Data ⁽¹⁾	CW Output Power(total)	W	22
	CW Output Power(445nm)	W	8
	CW Output Power (525nm)	W	8
	CW Output Power(638nm)	W	6
	Center wavelength	nm	445±20,525±10,635±10
	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	400
	Numeric aperture	-	0.22
	Fiber length	m	2-10
	Fiber termination	-	SMA905 / Customized
Electrical Data	Power supply	V	100~240 (50-60Hz)
	Power consumption	W	<150
	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
	CW Output Power	mW	2
Mechanical Parameters	Dimensions (L×W×H) ⁽³⁾	mm	430*482*130
	Weight	kg	<15
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 RPMC for other available options.

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

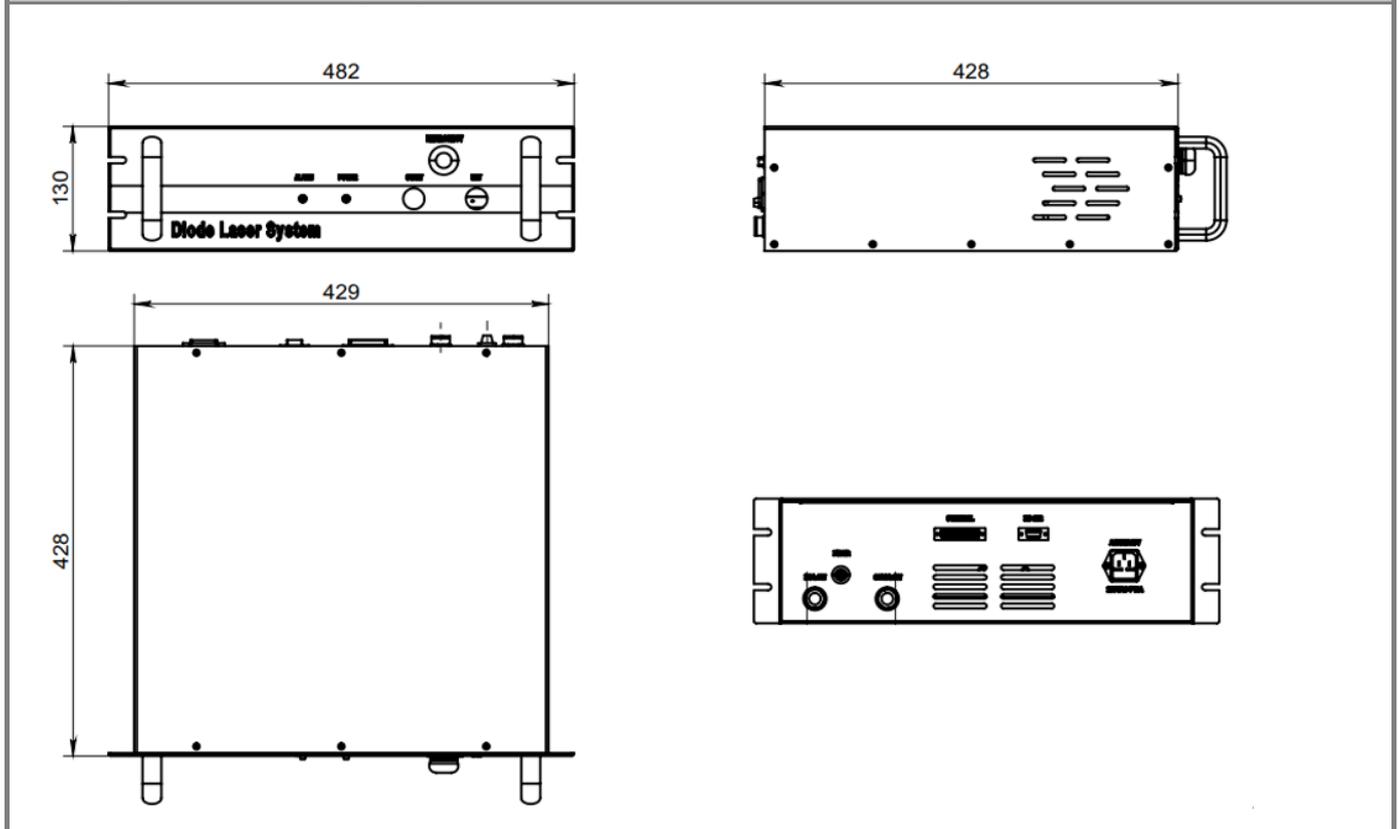
(3) The mechanical dimensions depends on the laser power and cooling mode.

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

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Package Dimensions (mm)



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.

