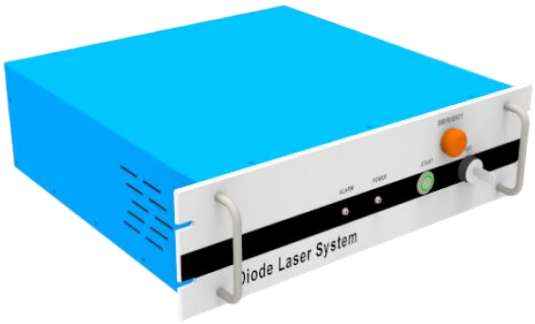
Diode Laser System

DS3-41624-LD



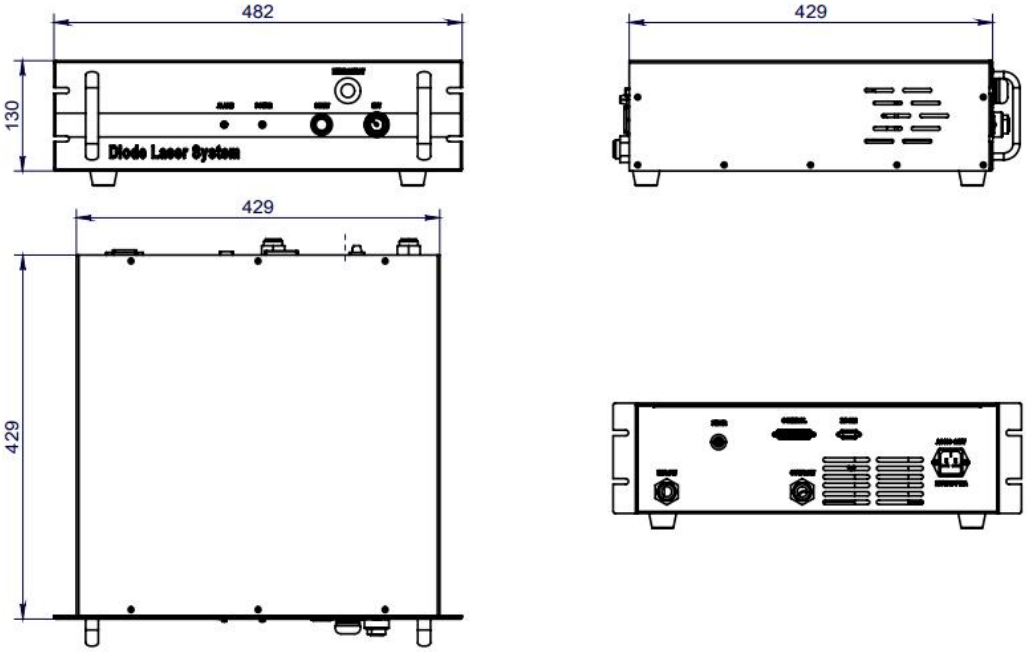
Features:

- 976nm wavelength
- 300W output power
- 200 μm fiber core diameter
- 0.22 NA

Applications:

- Plastic Welding
- 3D Printing
- Soldering

Package Dimensions (mm)



*Optinonal

OPERATING NOTES

- Avoid eye and skin exposure to direct radiation during operation.
- ESD precautions must be taken during storage, transportation and operation.
- Laser diode must work with good cooling.
- Operation temperature ranges from 20℃ to 30℃ .
- Storage temperature ranges from 5℃ to 50℃.



Diode Laser System

DS3-41624-LD

Specifications（25℃）		Unit	DS3-41624-LD
Optical Data(1)	CW Output Power	W	300
	Center Wavelength	nm	976±10
	Output Power Instability	%	±3（5 hours）
	Power Range	%	10-100
Fiber Data(1)	Core Diameter	μm	200
	Numeric Aperture	-	0.22
	Fiber Length	m	2 or Customized
	Fiber Termination	-	HP-SMA905 or Customized
Electrical Data	Power Supply	V	100~240（50-60Hz）
	Power Consumption	W	<800
	Drive Mode	-	Constant current
	Emission Mode	-	CW or Modulated
	Control Mode	-	RS232, I/O
	Modulation Frequency	Hz	1~20K
	Duty Cycle	%	5-95
	Modulation Rise/Fall Time (Min. Value)	μs	≤20
Aiming Beam	Output Power	mW	≥2
	Center Wavelength	nm	635±10
Mechanical Parameters	Dimensions (L×W×H)	mm	429*482*130
	Weight	kg	<15
Others	Cooling Method	-	Water cooling
	Cooling Capacity	W	≥500
	Cooling Water Temperature (2)	℃	25±5
	Water Discharge	L/min	7
	Pipe Diameter (External)	mm	12
	Storage Temperature (3)	℃	5~50
	Relative Humidity	%	5~80
	Safety Class	-	4（EN 60825-01）

(1) Customizable power output and fiber parameters according to customer requirements.

(2) Operating temperature defined by the package case. Acceptable operating range is 20℃~30℃, but performance may vary.

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

Declaration : information and specifications contained herein are deemed to be reliable and accurate. Hyperline reserves the right to hange, alter or modify the design and specifications of these products at any time without notice.26-07