Direct Diode Laser System

DL0450003003 VT0

450nm 30W Fiber coupled Diode Laser System

Features

- Lightweight Air Cooling, Small Size
- High Temperature Environment Light Stabilization
- Wide Operating Temperature Range
- Laser Stability Controlled
- CW and Modulated Pulse Modes

Applications

- Laser Marking Machine
- Precision Machining
- Cooper Welding

Turning Point Lasers (TPL), a pioneering optoelectronics company based in Taiwan, has made significant strides in the field of laser technology with the blue laser system. This system is notable for its 450nm emission, making it a robust tool for industrial applications. The high wall-plug efficiency nearing 35% is a testament to the advanced technology employed by TPL, which relies on highly reliable, entirely sealed high-efficiency single-emitter diodes. These blue lasers are versatile and find applications in processes such as soldering, metal hardening, welding, and additive manufacturing. The innovation and reliability of TPL's blue laser systems underscore their commitment to providing solutions that meet the evolving needs of modern industry.

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Direct Diode Laser System

Optical Characteristics

Optical Characteristics	UNIT	BDL450-30
Wavelength	nm	450
Bandwidth	nm	10
Mode of Operation		CW/Modulated
Modulation Frequency	kHz	0-5
Average Power	W	30
Power Tunability	%	10-100
Output Fiber Core Diameter	μm	105
Power Stability	%	<2

General Characteristics

General Characteristics	UNIT	BDL450-30
Fiber Termination		Endcap fiber cable
Delivery Fiber Length	m	3
Cabinet Dimensions (W x D x H)	mm	400*373*133.5
Weight	Kg	20
Cooling		Air Cooling
Power Supply		AC 220V,50/60 Hz
Control Mode		RS232/AD

Environmental Characteristics

Environmental Characteristics	UNIT	BDL450-30
Operation Temp.	°C	-10~40
Humidity	%	10-80
Air Flow	CFM	74.92 (Min. 67.42 CFM)
Noise Level (1M)	dB	69.1 (A) / Max. 71.2 dB(A)

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.
- Specifications are subject to change without note.

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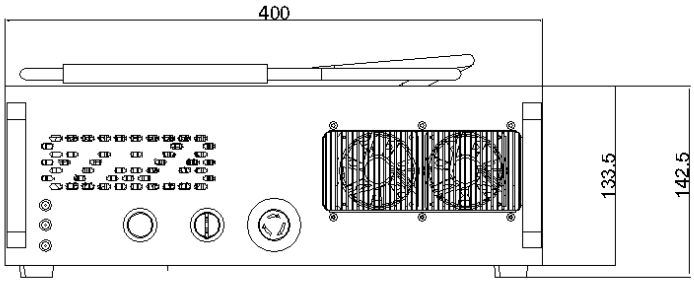
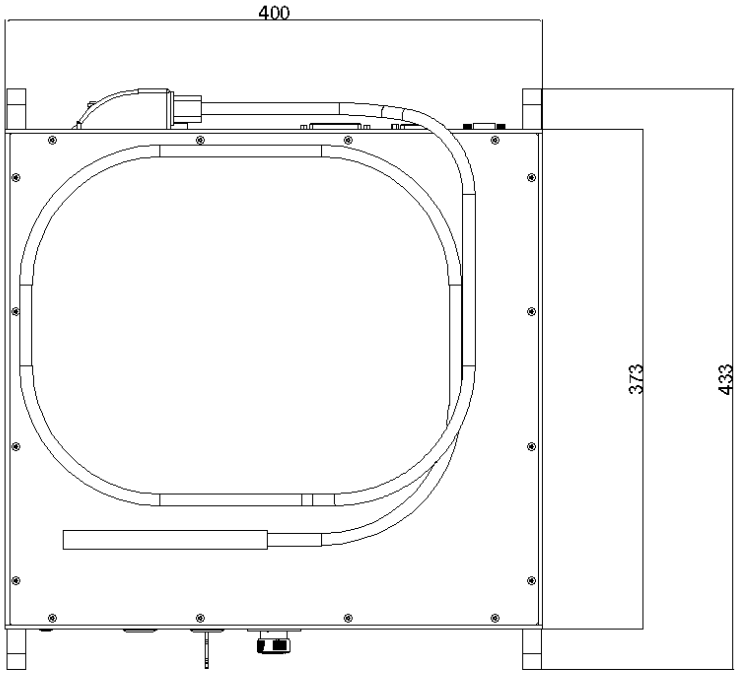
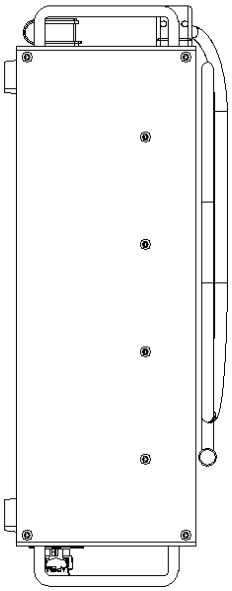
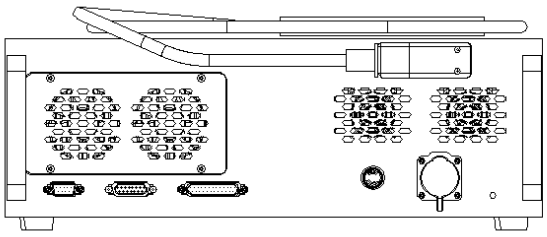
Schematic: Laser/Power Module









Unit: mm

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