

# Fiber Laser System

普通

FL1080300003 v.0

## 1080nm 3000W Fiber Laser System



### Features

- Low cost
- High electro-optical conversion efficiency
- Multiple protections, easy to use
- High system stability
- BPP ~ 2.4 mm x m rad

### Applications

- Metal cutting
- Metal cladding
- Metal surface treatment
- Laser Welding

### Optical Characteristics

Characteristics	Min	Typ.	Max	Unit
Mode of Operation	CW / Modulation			
Max Output Power			3000	W
Central Emission Wavelength		1080		nm
Polarization State	Random			
Output Power Adjusting Range	10		100	%
Beam Quality BPP	2.4 ±0.4			mm x mrad
Power Stable 25°C	±2 (2h)			%
Spectrum Width FWHM	<4			nm
Red Laser Power	0.2@650nm			mW
Modulation Frequency	5			kHz



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## Electrical Characteristics

Characteristics	Descriptions	Unit
Operation Voltage	340-420, 3P4W 50 / 60Hz	VAC
Max Power Consumption	9	kW
Control Mode	AD / Ethernet / RS232	

## Fiber Delivery / Cable Parameters

Characteristics	Descriptions	Unit
Optical Head	QBH	
Cable Length	15	m
Core Diameter	50	μm

## Other Characteristics

Characteristics	Descriptions	Unit
Dimensions (L x W x H)	575 x 482 x 133	mm
Weight	50± 3	kg
Joint Diameter	16	mm
Cooling Method	Water cooled	
Water Cooling Temp.	25 ± 1	°C
Water Cooling Flow	>30 (laser) 1.5 -2(QBH)	L/min
Water Cooling Pressure	3-5	Bar
Min Cooling Capacity	8	KW
Operation Temp.	10-40	°C
Storage Temp.	-10-60	°C

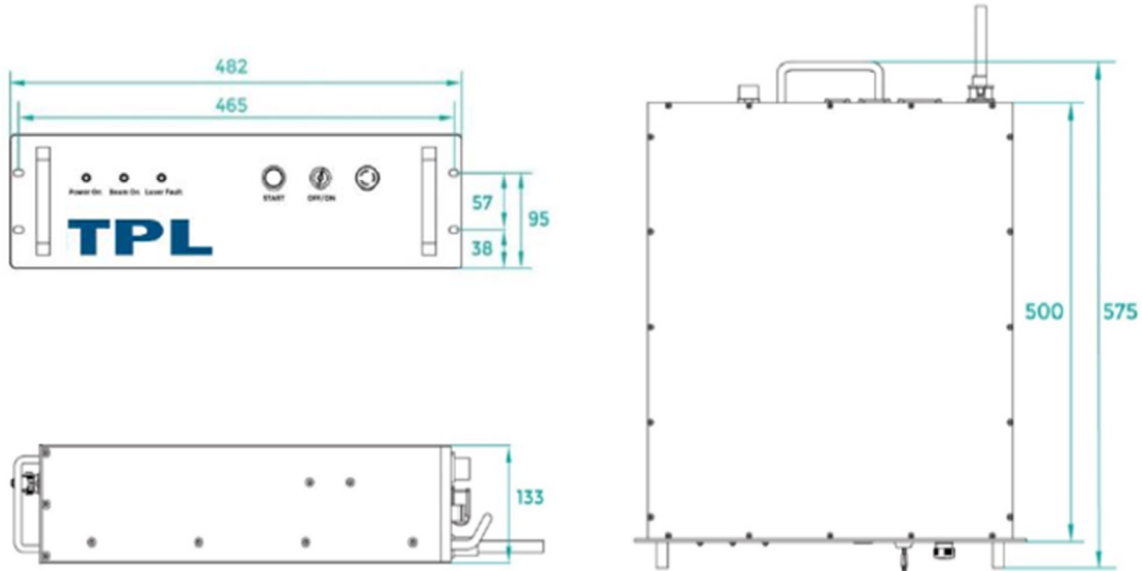


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## Schematic: Laser/Power Module



Unit: 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.
- Specifications are subject to change without note.

