



**RAYCUS FIBER LASER SOURCE
OUTPUT POWER -3000W**



Raycus is the third-generation single module CW fiber laser series developed by Raycus the new fiber laser has higher electro-optical conversion efficiency, higher and more stable optical quality, stronger altitude stress-resisting capacity and they apply optimized second-generation fiber transmission system to ensure more stable and more sophisticated cutting effect in thick sheet cutting. It can be widely used in laser processing like welding, precision cutting, cladding, surface treatment, 3D printing, and other fields. Its optical fiber output characteristics make it easier to integrate with robots into flexible manufacturing equipment to meet the needs of three-dimensional processing. The development and production of multi-module continuous fiber laser series products are completely completed by Raycus Laser



TECHNICAL PARAMETER :

OPTICAL CHARACTERISTICS

Output Power	: 3000 W	
Operation Mode	: CW/Modulated	
Polarization State	: Random	
Power Range	: 10~100%	
Central Wavelength	: 1080±5 nm	(Nominal Output Power)
Output Power Instability	: ±1.5%	(Nominal Output Power)
		Duration ≥5 Hrs.
		Ambient Temp: 22±1 °C
Modulation Frequency	: 1~5000 Hz	(Nominal Output Power)
Red Laser Output Power	: 0.5~1 mw	

OPTICAL OUTPUT CHARACTERISTICS OF QBH HEAD

Beam Quality	: 1.5~2 mm x rad	
Core Fiber (μm)	: 50 (100,200 Optional)	
Numerical Aperture	: 0.2	
Delivery Cable	: 20	Customizable Length

ELECTRICAL CHARACTERISTICS

Power Supply	: 380±10% V AC, 50/60Hz
Max. Power Consumption	: 10000 W
Control Mode	: RS-232/AD/Ethernet

OTHER CHARACTERISTICS

Dimension (W x H x D)	: 900 x 447 x 250 (Include Handle)
Weight	: <80 kg.
Operating Ambient Temperature	: 10~40 °C
Humidity	: <30-70%
Storage Temperature	: -10~60 °C
Cooling Method	: Water Cooling



FEATURES:

- Excellent beam quality
- High reliable and sealing
- High power stability
- Power continuously adjustable and fast switch response
- Maintenance-free operation
- High Electro-optical Conversion Efficiency
- Anti-reflection Capacity
- High modulation frequency and editable waveform

APPLICATIONS:

- Laser Cutting
- Laser Welding
- Sheet Metal Piercing
- Metal Carving
- Surface Treatment
- 3D Printing/Rapid Prototyping

RECOMMENDED COOLANT TEMPERATURE:

Constant Dew Point table at Ambient Temperature and Relative Humidity

Ambient Temperature (°C)	Maximum Relative Humidity								
	20%	30%	40%	50%	60%	70%	80%	90%	95%
20	-3.5	2	6	9	12	14.5	16.5	18	19
25	0.5	6	10.5	14	16.5	19	21	23	24
30	4.6	10.5	15	18.5	21.5	24	26	28	29
35	8.5	15	19.5	23	26	28.5	31	33	34
40	13	20	24	27.5	31	33.5	36	38	39
Laser Operating Temperature Range									