Raycus

RAYCUS FIBER LASER SOURCE
OUTPUT POWER -2000W

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

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TECHNICAL PARAMETER :

OPTICAL CHARACTERISTICS		
Output Power	**: 2000 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: 25±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	: BPP < 1.5 mm x rad	
Divergence Half Angle	: 0.06 rad	
Core Fiber (μm)	: 50	
Delivery Cable	: 20	Customizable Length
ELECTRICAL CHARACTERISTICS		
Power Supply	: 380±10% V AC, 50/60Hz	
Max. Power Consumption	: 6500 W	
Control Mode	: RS-232/AD/Ethernet	
OTHER CHARACTERISTICS		
Dimension (W x H x D)	: 414 x 686 x 158 (Include Handle)	
Weight	: <70 kg.	
Operating Ambient Temperature	: 10~40 ˚C	
Humidity	: <30-70%	
Storage Temperature	: -10~60 ˚C	
Cooling Method	**: Water Cooling**	

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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								