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# 10000W-30000W Multi-module CW Fiber Lasers

## Introduction

The Multi-module CW Fiber Lasers developed by Raycus ranges from 4,000W to 30kW, with high electro-optical conversion efficiency, high light beam quality, high energy density, wide modulation frequency, high reliability, long service life, maintenance-free operation and advantages. The product can be widely applied in welding, precision cutting, melting and cladding, surface processing, 3D printing and other fields. Its optical output performance helps it better integrate with robots as a flexible manufacturing equipment to meet 3D processing requirement.

## Application

- Cutting
- Welding
- Sintering
- Cladding
- Surface Treatment
- 3D Printing

## Characteristic

- High Electro-optical Conversion Efficiency
- Customized Output Fiber Length
- Output Cable：QBH/QD
- Maintenance-free Operation
- Wide Modulation Frequency Range
- Small Size, Easy to Install



Model	RFL-C10000X	RFL-C12000X	RFL-C15000	RFL-C20000	RFL-C30000
Optical Properties					
Average Output Power(W)	10000	12000	15000	20000	30000
Wavelength (nm)	1080±5				
Operation Mode	CW/Modulate				
Max. Modulation Frequency(kHz)	2		5		
Output Power Stability	±1.5				
Red Laser	Yes (Output Power0.5mW~1mW )				
Output Characteristics					
Beam Delivery Optics	QD			QP	
Output Fiber Diameter(μm)	100 (Customizable)				150
BPP (mm.mrad)	≤4				7
Polarization State	Random				
Delivery Cable Length (m)	≤30		≤20		
Electrical Characteristics					
Power Supply (VAC)	323~437, Three Phase-four Wire Connect, @47-63Hz				
Control Mode	RS232/AD				
Power range (%)	10~100				
Other Characteristics					
Dimensions (mm)	1200×960×1160	15000XZ: 960×1220×1600 15000TZ: 960×1160×1500	20000XZ: 1200×1220×1600 20000TZ: 960×1160×1500	1320×1160 ×1600	
Cooling	Water cooling				
Operating Temperature	10~40 (°C)				

# 75W-300W QCW Fiber Lasers

## Introduction

The QCW fiber laser series developed by Raycus ranges from 75W to 1500W, with higher electro-optical conversion efficiency, better optical quality and lower maintenance cost. This series product is a perfect alternative of existing light-pumped YAG laser and is an ideal choice for spot welding, seam welding, boring and other industrial applications , which requires wide pulse and high peak out power due to its diversified compatibility and the convenience for most YAG systems to use with simple transformation.

## Application

- PCB Welding
- Soldering
- Ceramics Cutting
- Spot/Seam Welding
- Power Battery Welding
- Precision Welding /Cutting
- Electronic Parts Processing
- Alternative of Light-Pumped YAG Lasers

## Characteristic

- Two Work Modes：Continuous and Pulse
- Peak Output 3000W
- QBH Output Connector and Optional Output Length
- Extremely Stable Output Performance
- Excellent Light Beam Quality
- Air-Cooled Heat Dissipation



Model	RFL-QCW 75/750	RFL-QCW 100/1000	RFL-QCW 150/1500	RFL-QCW 300/3000
Optical Properties				
Operation Mode	CW/Modulate			
Average Power (CW) (W)	120	100	250	300
Average power (Pulse) (W)	75	100	150	300
Max. Output Power (W)	750	1000	1500	3000
Max. Pulse Energy (J)	7.5	10	15	30
Wavelength (nm)	1080±5			
Repetition Frequency(Hz)	0-5000			
Pulse Width(ms)	0.05-50			
Output Power Stability(%)	<±1.5			
Red Laser	Yes			
Output Characteristics				
Beam Delivery Optics	IQB			
Output Fiber Diameter(μm)	50 (12,25 Optional)			50 (25,100,200)
BPP (mm.mrad)	<1.2			<2.5
Electrical Characteristics				
Power Supply (V DC)	48±10%VDC			
Control Mode	RS232/Ethernet	RS232/ AD/Ethernet		
Power Range (%)	10~100			
Other Characteristics				
Dimensions (mm)	280×440×148	390×189×460		570×234×565 (Handle Included)
Cooling	Air-cooled			
Operating Temperature	10-40	0-40		



Brass cutting



30mm carbon steel  
bright surface cutting



Aluminum cutting



100mm stainless steel cutting



Precision welding



Precision cutting



Precision cutting



Precision welding