We only show **the best.**

# Single Module CW Fiber Lasers

## Introduction

The third-generation single module CW fiber laser series developed by Raycus ranges from 300W to 3,000W, the new lasers have 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. This series of lasers apply to many application scenarios: cutting, welding, holing, medical device processing, etc., with a narrow seam of the cut sheet and bright section.


## Application

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

## Characteristic

- High Electro-optical Conversion Efficiency
- Altitude Stress-resisting Capacity
- Sheet Cutting Efficiency
- Customized Output Fiber Length
- Maintenance-free Operation
- Wide Modulation Frequency Range

Lithium battery welding

3D printing

20mm carbon steel cutting

Brass cutting

## Specifications

| Model | RFL-C300L | RFL-C500 | RFL-C750 | RFL-C1000 | RFL-C1500X | RFL-C2000X | RFL-C3000S |
|---|---|---|---|---|---|---|---|
| **Optical Properties** | | | | | | | |
| Average Output Power(W) | 250 | 500 | 750 | 1000 | 1500 | 2000 | 3000 |
| Central Wavelength(nm) | 1080±5 | | | | | | |
| Operation Mode | CW/Modulate | | | | | | |
| Max. Modulation Frequency(kHz) | 20 | | | 5 | | | |
| Output Power Stability (%) | ±1.5 | | | | | | |
| Red Laser | Yes | | | | | | |
| **Output Characteristics** | | | | | | | |
| Beam Delivery Optics | QBH (Customizable) | | | | | | |
| Beam Quality($M^2$) | 1.1 (25μm) | | | 1.3 (25μm) | 5-7 (50μm) | | |
| Polarization State | Random | | | | | | |
| Delivery Cable Length(m) | 15 (Customizable) | | | 20 (Customizable) | | | |
| **Electrical Characteristics** | | | | | | | |
| Power Supply (V AC) | 200-240, Single Phase | | | | Three Phase-four Wire Connect 380±10% | | |
| Control Mode | RS232/ AD/Super Terminal | | | | RS232/ AD | | |
| Power Range(%) | 10~100 | | | | | | |
| **Other Characteristics** | | | | | | | |
| Dimensions (mm) width*height *depth | 485×748×237 (handle included) | | | | 485×900×237 (handle included) | | |
| Weight(kg) | <50 | | | | <80 | | <85 |
| Cooling | Water Cooling | | | | | | |
| Operating Temperature(°C) | 10-40 | | | | | | |