

RFL-C6000M-HP

Raycus High Performance 6000W Multi Module CW Fiber Laser

Data Sheet V1.0

The Raycus HP series high performance CW fiber lasers are aimed at high-end industry worldwide market, with high stability, high safety standards, high redundancy, and high intelligence. At present, this series of lasers has been purchased and applied in bulk by many internationally well-known equipment integrators.

Suited for heavy-duty cutting and processing of thicker materials, this power range is essential for industries such as aerospace, shipbuilding, and heavy machinery manufacturing, where higher power and deeper penetration are required. Customers looking for powerful and versatile lasers for demanding applications will find this segment ideal. It offers the capability to handle a wider variety of materials and thicknesses with ease.



Product Features

- CE Certification
- PLD certification
- Multiple Anti-high Reflection Mechanisms
- High Intelligent Monitoring Capability
- EtherCat / Profinet / Profibus / DeviceNet
- High Electron-optical Efficiency
- High Power Stability
- Better Performance in Industrial Applications

Product Applications

- ◆ Industrial Cutting
- ◆ Industrial Welding
- ◆ Scientific Research

Technical Specifications

| | | | |
|----------------------|-----------------------|-----------------------|--------------------------|
| Central wavelength | 1075-1085 nm | Supply voltage | 360~510 V AC |
| Output power | 6000 W | Operation mode | CW / Modulate |
| Power instability | ±1 % | Control mode | BUS, Ethernet, RS232, AD |
| Range of power | 10-100 % | Dimensions | 900×980×1090 mm |
| Repetition frequency | 50-5000 Hz | Weight | <360 kg |
| Beam quality | <4 BPP | Operating temperature | 10 - 40 °C |
| Terminal type | HQBH (Customizable) | Storage temperature | -10 - 60 °C |
| Fiber length | 20 m (Customizable) | Humidity | 30~70 % |
| Fiber core | 100 μm (Customizable) | Cooling method | Water |

Product Dimensions

