

RFL-C12000M-HP

Raycus High Performance 12000W 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	12000 W	Operation mode	CW / Modulate
Power instability	±1 %	Control mode	BUS, Ethernet, RS232, AD
Range of power	10-100 %	Dimensions	1200×980×1160 mm
Repetition frequency	50-5000 Hz	Weight	<500 kg
Beam quality	<4 BPP	Operating temperature	10 - 40 °C
Terminal type	QD (Customizable)	Storage temperature	-10 - 60 °C
Fiber length	30 m (Customizable)	Humidity	30~70 %
Fiber core	100 μm (Customizable)	Cooling method	Water

Product Dimensions

