

RFL-C6000S-HP

Raycus High Performance 6000W Single 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.



This power range is perfect for precision cutting and welding of thin to medium-thickness materials. Ideal for industries like electronics, automotive, and precision manufacturing, where high accuracy and clean cuts are critical. For customers needing efficient, high-precision laser solutions, this segment offers robust performance for detailed work, enhancing productivity and product quality.

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

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

Technical Specifications

Central wavelength	1075-1085 nm	Supply voltage	360~510 V AC
Output power	6000 W	Operation mode	CW / Modulate
Power instability	±1.5 %	Control mode	BUS, Ethernet, RS232, AD
Range of power	10-100 %	Dimensions	448×168×934 mm
Repetition frequency	1-5000 Hz	Weight	<85 kg
Beam quality	<4 BPP	Operating temperature	10 - 40 °C
Terminal type	QBH (Customizable)	Storage temperature	-10 - 60 °C
Fiber length	20 m (Customizable)	Humidity	30~70 %
Fiber core	100 μm (Customizable)	Cooling method	Water

Product Dimensions

