



Источники лазерного
излучения
RAYCUS



Medium Power Single Mode CW Fiber Lasers

Raycus provides the 3rd version wide range of medium power (100 – 1000W) single mode CW fiber lasers with excellent beam quality and above 30% wall-plug efficiency, with better quality stability and resist reflectivity. With this new version they are ideal for material processing applications such as cutting, welding, medical device and micromachining.

The Medium power single mode CW fiber lasers are all created by Raycus with professional research and production team. Those can fulfill diversification of customer needs and also certain customized order. We can provide either QCS or QBH type with multiply control system which gain a good reputation all over the world.

Application

- Cutting
- Welding
- Carving
- Drilling
- 3D printing

Characteristic

- 1 High efficiency
- 2 High resist reflectivity
- 3 Sheet cutting
- 4 Output optical fiber length can be customized
- 5 QCS/QBH beam delivery cable
- 6 Air /water cooling
- 7 Maintenance free
- 8 Frequency range of Width modulation

Specifications

Mode	RFL-C100	RFL-C300	RFL-C500	RFL-C750	RFL-C1000
Optical Properties					
Nominal Output Power(W)	100	300	500	750	1000
Wavelength(nm)	1080				
Operating Mode	CW/Modulated				
Max.Modulation Frequency(kHz)	20			5	
Output Power Stability	<3%				
Red light	yes				
Output Characteristics					
Output	QCS/QBH			QBH	
BPP(mm*mrad)	Single for 0.4, Multi for 2				
Polarization State	Random				
Delivery Cable Length(m)	15				
Electrical Characteristics					
Power Supply (V AC@47~63Hz)	220±10%, Single phase three-wire			380±15%, three-phase four-wire	
Control Mode	Ext.RS232/Ext.AD/Hyper terminal				
Power change rate (%)	10~100				
Power Consumption(W)	500	1200	2000	3000	3200
Other Characteristics					
Dimensions(mm)	450×240×680(with handle)			450×240×770(with handle)	
Weight(kg)	<50			<60	
Cooling	Water /air cooling	Water cooling			
Operating Temperature (°C)	10-40				

WUHAN RAYCUS FIBER LASER TECHNOLOGIES CO.,LTD



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High Power Multi-mode CW Fiber Lasers

Raycus' high power fiber lasers (1.5~4KW CW) which offer very good reliability, high optical quality, high-energy density, frequency modulation, long life time and maintenance free. Raycus' high power fiber lasers are specially designed and manufactured for material processing such as fast cutting, welding, cladding, surface treatment and 3D printings.

This lasers use standard QBH beam delivery optics, which make it easy for industrial integration and apply for majority situations with a variety of control mode. As a result, it can meet major customer needs and already gain good reputation around the world.

Application

- Cutting
- Welding
- Brazing
- Cladding
- Drilling
- Hardening

Characteristic

- 1 High efficiency
- 2 Customized cable length
- 3 QBH beam delivery cable
- 4 Maintenance free
- 5 Frequency range of Width modulation

Specifications



Mode	RFL-C1500	RFL-C2000	RFL-C3000	RFL-C4000
Optical Properties				
Nominal Output Power (W)	1500	2000	3000	4000
Central Wavelength (nm)	1080			
Operating Mode	CW/Modulated			
Max.Modulation Frequency (kHz)	20	5	5	5
Output Power Stability	<3%	<3%	<3%	<3%
Red light	yes			
Output Characteristics				
Beam Delivery Optics	QBH			
Fiber core diameter (μm)	50/100	50/100/200/300		
QBH NA(rad)	<0.1			
BBP(mm.mrad)	2.5~5	2.5~15		
Polarization State	Random			
Delivery Cable Length (m)	15			
Electrical Characteristics				
Power Supply (V AC@47~63Hz)	380±15%, Three phase five line connection			
Control Mode	xt.RS232/Ext.AD/Hyper terminal			
Power range (%)	10~100			
Power consumption (W)	6000	8000	11200	16000
Other Characteristics				
Dimensions (mm)	650×730×970	650×730×1420	650×730×1420	1200×953×1220
Weight(kg)	150	200	250	450
Cooling	Water cooling			
Operating Temperature(°C)	10-40			

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Пт: 8.00–16.00

Перерыв: 12.30–13.30

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