

水冷单腔连续光纤激光器

WATER-COOLED SINGLE-CAVITY CW FIBER LASER

先导激光水冷连续激光器基于单腔振荡结构或主振荡放大结构设计,实现从1000W~6000W的激光输出。该系 列产品具有结构紧凑、高转换效率、高可靠性等优势。设备广泛应用于激光切割、激光焊接、激光熔覆等领域

The VLS water-cooled CW fiber laser is designed based on a single-cavity oscillation structure or a master oscillator power amplifier structure to achieve laser output ranging from 1000W to 6000W. This series of products has the advantages of a compact structure, high conversion efficiency, and high reliability. The equipment is widely used in fields such as laser cutting, laser welding, and laser cladding.



产品特点

Product Features

- 光束质量好 High beam quality
- 连续/调制 Continuous/Modulated

- 免维护、低成本 Maintenance-free and low cost
- 电光转换效率高
- High electro-optical conversion efficiency
- 结构紧凑、坚固、易于安装 Compact, sturdy structure, and easy to install

产品参数

Product parameters



型号 Model	VLS-FB-LC- 15S	VLS-FB-LC- 1500	VLS-FB-LC- 2000	VLS-FB-LC- 3000	VLS-FB-LC- 6000
光学特性 Optical Properties					
中心波长 Wavelength			1080±5nm		
额定输出功率 Rated Power	1200W	1500W	2000W	3000W	6000W
工作模式 Operation Mode	连续/调制 Continuous/Modulated				
偏振方向 Polarization Direction	随机 Random				
输出功率不稳定度 Power Instability	±1.5%				
输出头形式 Output Head Type	QBH(可定制 Customized)				
光纤芯径 Fiber Core Diameter	25µm	n(可定制 Custo	mized)	50μm	50or100 μm
数值孔径 NA	0.075	0.075(可定制 Customized)		0.22/0.075	0.22
光纤长度 Fiber Length	10M(可定制 Customized)		20M 可定制 (Customized)	25M 可定制 (Customized)	
指示光 Indicator Light	650nm 0.5~1mW				
电学特性 Electrical Properties					
工作电压 Operation Voltage		AC 220V±10%、50/60Hz		AC 380V±10%、50/60Hz	
最大功耗 Max Power Consumption	3500W	4500W	6000W	12000W	18000W
控制方式 Control Method	RS232/外控IO RS232/external control IO				
其他特性 Others					
外观尺寸 Dimensions	430x435x96mm			586x448x96mm	875x448x96mm
重量 Weight	≤20Kg			≤25Kg	≤35Kg
工作环境 Operation Environment	温度5~40℃,湿度65% Temperature 5~40℃, humidity 65%				
存储环境 Storage Temperature	-10~60°C				
冷却方式 Cooling Method	水冷 Water cooling				

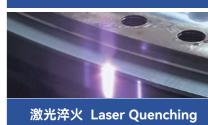
应用领域

Application Fields





激光焊接 Laser Welding







17 18