

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
- 结构紧凑、坚固、易于安装

Compact, sturdy structure, and easy to install
- 免维护、低成本

Maintenance-free and low cost
- 电光转换效率高

High electro-optical conversion efficiency

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				
输出功率不稳定性 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（可定制 Customized）			50μm	50or100 μm
数值孔径 NA		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℃				
冷却方式 Cooling Method		水冷 Water cooling				

应用领域

Application Fields

