

# 水冷合束多模连续光纤激光器

WATER-COOLED BEAM-COMBINED MULTI-MODE CW FIBER LASER

先导激光合束多模连续激光器基于单模块功率合束的方式，实现80 kW的激光输出。该系列产品输出能量分布优越，加工断面质量良好，加工速度快，广泛应用于激光大型厚板切割，激光焊接，激光熔覆等。

The VLS beam-combined multi-mode CW laser is based on the method of combining the power of a single module to achieve laser output 80 kW. This series of products has superior output energy distribution, good processing section quality, and fast processing speed. It is widely used in laser large-thick-plate cutting, laser welding, laser cladding, etc.



## 产品特点

Product Features

- **输出能量分布优越**  
Superior output energy distribution
- **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
- **免维护、低成本**  
Maintenance-free and low cost
- **连续/调制**  
Continuous / Modulation

## 产品参数

Product parameters

型号 Model	VLS-FB-LC-12k	VLS-FB-LC-20k	VLS-FB-LC-30k	VLS-FB-LC-60k	VLS-FB-LC-80k
光学特性 Optical Properties					
中心波长 Wavelength	1080±5nm				
额定输出功率 Rated Power	12000W	20000W	30000W	60000W	80000W
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	QD/LOE（可定制 Customized）				
光纤芯径 Fiber Core Diameter	100μm（可定制 Customized）			150or200μm	200μm
数值孔径 Numerical Aperture	0.22				
光纤长度 Fiber Length	30M（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 380V±10%、50/60Hz				
最大功耗 Max Power Consumption	36kW	60kW	90kW	180kW	240kW
控制方式 Control Method	RS232/外控IO RS232/external control IO				
其他特性 Others					
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

