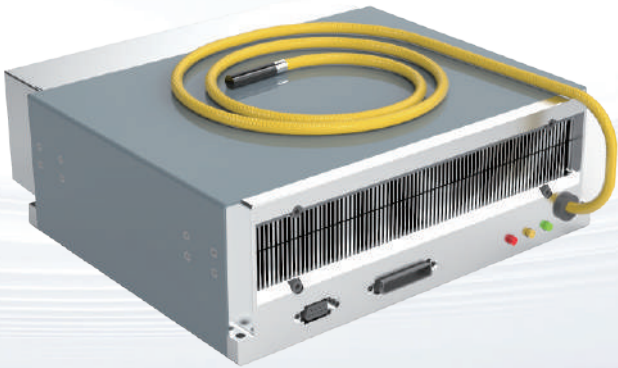


掺铥光纤激光器

THULIUM-DOPED FIBER LASER

先导激光2.0μm波段连续光纤激光器采用主振荡器功率放大（MOPA）结构或者直接谐振腔结构设计，可以实现从毫瓦(mW)级到数百瓦量级的高功率输出，泵浦采用高亮度793nm，在提高输出功率的同时获得最佳光束质量，且不会使得脉冲变形，在毫秒（ms）量级长脉冲工作的情况下保证了近乎理想的方波脉冲输出。适用于器件测试，医疗，遥感，激光雷达，中红外泵浦等应用领域

The VLS 2.0μm band CW fiber laser adopts the design of master oscillator power amplifier (MOPA) structure or direct resonant cavity structure, which can achieve high-power output from milliwatt (mW) level to hundreds of watts level. The pump adopts high-brightness 793nm, which can obtain the best beam quality while increasing the output power, and will not cause pulse deformation. It ensures nearly ideal square wave pulse output when working in the long pulse of millisecond (ms) level. It is suitable for application fields such as device testing, medical treatment, remote sensing, lidar, mid-infrared pumping, etc.



产品特点

Product Features

- 高峰值功率输出

High peak power output
- 风冷一体化设计

Integrated air cooling design
- 近衍射极限的输出光束质量

Output beam quality near diffraction limit

产品参数

Product parameters

型号 Model	VLS-TM-AS-30		VLS-TM-AS-60	VLS-TM-LC-120
光学特性 Optical Properties				
中心波长 Wavelength	1940±3nm			
峰值输出功率 Peak Output Power	300W	600W	1200W	
平均输出功率 Average Output Power	30W	60W	120W	
最大脉冲能量 Maximum Pulse Energy	3mJ	6mJ	12mJ	
频率可调范围 Power Modulation Rate	2.5kHz			
脉宽范围 Pulse Width Range	50-50000us			
光束质量 Beam Quality	< 1.2M²			< 1.5M²
光纤直径 Output Fiber Core	25um	50um		
光纤长度 Cable Length	5M			
接头类型 Beam Delivery	SMA905			QCS
指示光 Guide Beam	650nm 0.5~1mW			
工作模式 Operation Mode	CW/QCW			
电学特性 Electrical Properties				
工作电压 Voltage	48V			
功率稳定性 Power Stabil	2%@8h			
整机功耗 Power Consumption	< 250W	< 500W	< 1000W	
其他特性 Others				
整机尺寸 Dimensions (mm)	265x270x90mm			400x482x180mm
工作温度 Working Temperature	0-40℃			
储存温度 Storage Temperature	-45-60℃			
冷却方式 Cooling Method	风冷 Air cooling			水冷 Water cooling

应用领域

Application Fields



激光医疗
Laser Medical



中红外泵浦源
Mid Mnfared Pump Source



塑料材料加工
Plastic Material Processing



科研实验领域
Research and Experimental