

633nm Narrow Line Width Laser



DESCRIPTION

633nm is one of the most widely used standard wavelengths at present. The 633nm narrow linewidth semiconductor laser system introduced by our company adopts the volume Bragg grating (VBG) wave locking technology, which enables the semiconductor laser to achieve narrow linewidth and stable power output. It can replace the traditional He Ne exciter in many fields. At the same time, compared with the He Ne laser, it has the advantages of compact structure and continuously adjustable power, Two output modes, spatial collimation and fiber coupling, can be provided.

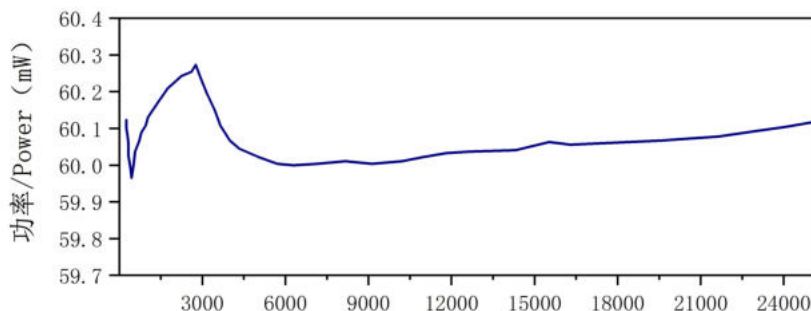
FEATURES

- Line width <math><0.07\text{nm}</math>
- Frequency stability better than $\pm 0.005\text{nm}@8\text{H}$
- Line width <math><0.07\text{nm}</math>
- Built-in TEC, power stability is better than $\pm 1\%$
- Including host computer control, emergency stop switch, short circuit protection and other functions

APPLICATIONS

- Raman Spectroscopy
- Fluorescence Spectrum Detection
- Holographic Detection
- Up-conversion Material

CHARACTERISTICS OF 633NM NARROW LINEWIDTH LASER SYSTEM



633nm激光功率8小时稳定性曲线
(8h stability curve of 633nm laser power)

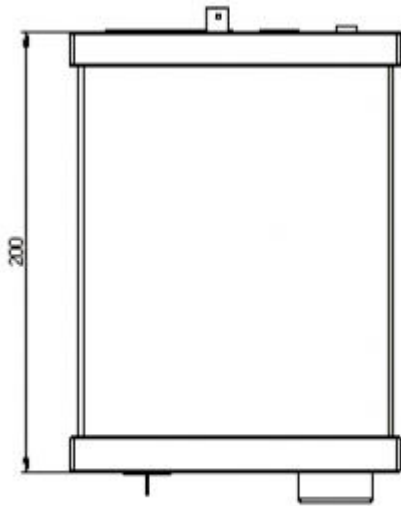


PARAMETERS

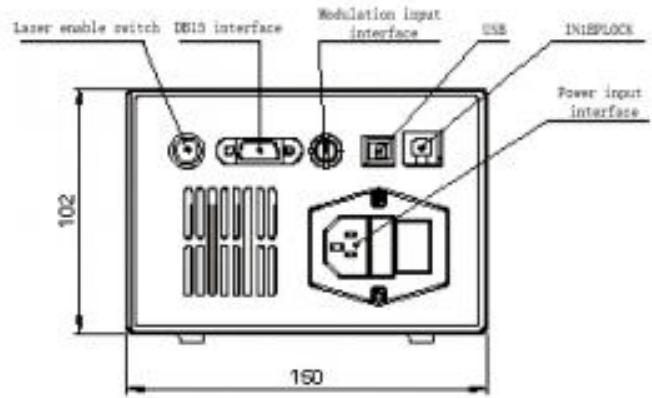
		CL633-SIF(FP)-20mW-NLM003	CL633-MIF(FP)-50mW-NLM004	CL633-SOW-50mW-NLM005
Optical Parameter	Central Wavelength	633nm	633nm	633nm
	Output Power	20mW (Single mode)	50mW (Multimode)	50mW (Multimode)
	Wavelength Tolerance	±0.5nm	±0.5nm	±0.5nm
	Line Width	< 0.1nm	< 0.1nm	< 0.1nm
	Wavelength Stability	±0.005nm @8H Typ.	±0.005nm @8H	±0.005nm @8H Typ.
	Power Stability	±1% @8H Typ.	±1% @8H	±1% @8H Typ.
	Side Mode Rejection Ratio	40dB	40dB	40dB
System Parameters	Power Adjustment Range	0~100%	0~100%	0~100%
	Preheat Time	15min	15min	15min
	Modulation Input	1kHz TTL Or Analog signal0-5V	1kHz TTL Or Analog signal0-5V	1kHz TTL Or Analog signal0-5V
	Control Interface	USB, BNC	USB, BNC	USB, BNC
	Fiber Interface	FC/PC	FC/PC	SMA905
	Adaptive Optical Fiber	105µm, 0.22NA	105µm, 0.22NA	105µm, 0.22NA
	Power Input	100V-240VAC 50/60Hz	100V-240VAC 50/60Hz	100V-240VAC 50/60Hz
	System Power Consumption	<7W	<7W	<7W
	Storage Temperature	-10~60℃	-10~60℃	-10~60℃
	Storage Humidity	0~80%RH	0~80%RH	0~80%RH
	Operating Temperature	10~35℃	10~35℃	10~35℃
	System Weight	2.2Kg	2.2Kg	2.5Kg
	Laser Power Size	150 x 102 x 200mm	150 x 102 x 200mm	150 x 102 x 200mm
Laser Head Size	45 x 35 x 70mm	45 x 35 x 70mm	45 x 35 x 70mm	



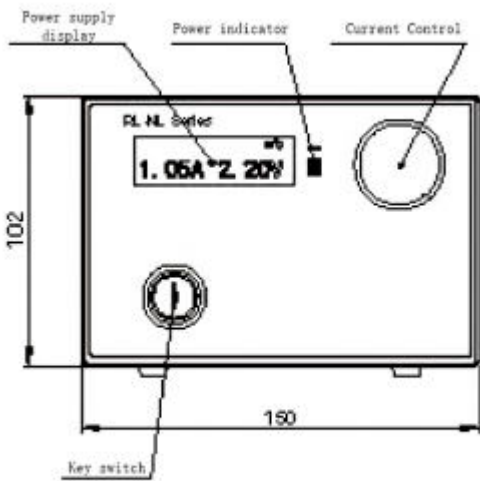
LASER HEAD SIZE CHART



Top view of laser power supply



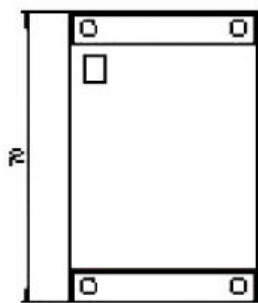
Rear view of laser power supply



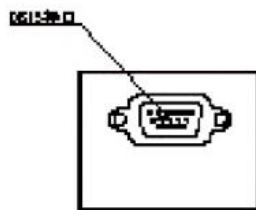
Frontal view of laser power supply



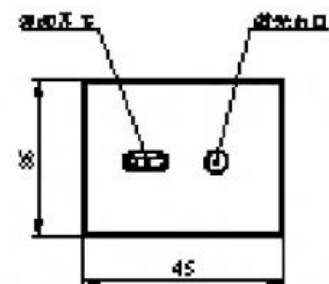
Unit:mm



Top view of laser head



Rear view of laser head



Frontal view of laser head

