

PGL-LF Series Diode Lasers



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The beam size of laser module can easily be adjusted with the tool-free manual focus option.

PGL-LF Series Diode Lasers with its industrial-suited design and stable performance works perfectly as an integrated module collimation, laser medical treatment, scientific experiment, optical instrument, etc.

FEATURES

- Beam size adjustable
- Long lifetime
- Low cost
- Easy operating

APPLICATIONS

- Collimation
- Laser medical treatment
- Scientific experiment
- Optical instrument



SYSTEM SPECIFICATIONS*

Wavelength	nm	405	450	520	635-660	808	830-1550
Wavelength tolerance	nm (typical)	±5	±5	±5	±10	±10	±10
Output power	mW	1-150	1-50	1-50	1-130	1-100	1-10
Beam size	<250mm	40-200um					
Beam size	@1m	< 1.0mm					
Beam divergence	mrad	<1.5					
Laser operation mode		CW					
Expected lifetime	hours	10000					
Warranty	year	1					

ELECTRICAL SPECIFICATIONS

Operating voltage(internal PCB)	DC 5V
Modulation optional	TTL 30kHz or analog (0-3V or 0-5V)
Connection	Cable with flying leads

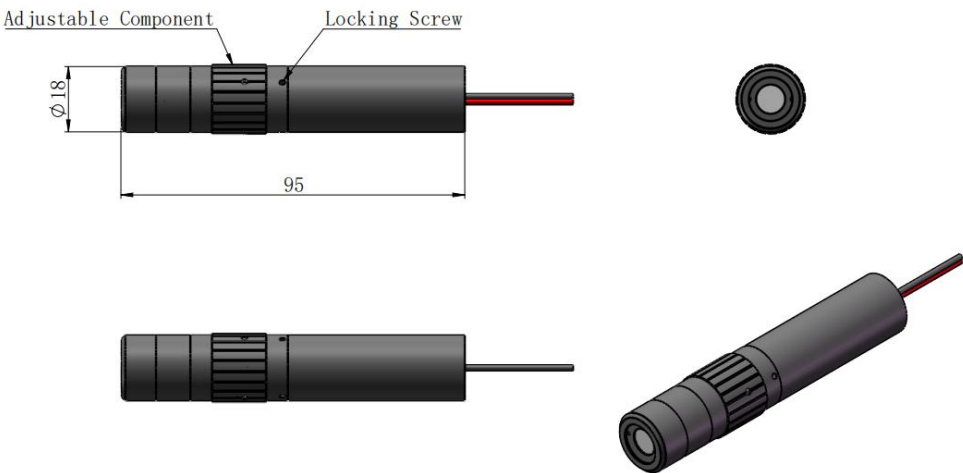
ENVIRONMENTAL CONDITIONS

Operating temperature	°C	-10°C to +45°C
Storage temperature	°C	-20°C to +80°C
Humidity	%	< 90 %, non-condensing
Dissipated heat	W	< 1 W

MECHANICAL SPECIFICATIONS

Weight	g	45g
Length	mm	95 mm
Diameter head Ø	mm	18 mm
Material		Aluminum

Dimensions of laser and PCB (mm):



*All testing data under the conditions of temperature 25°C.

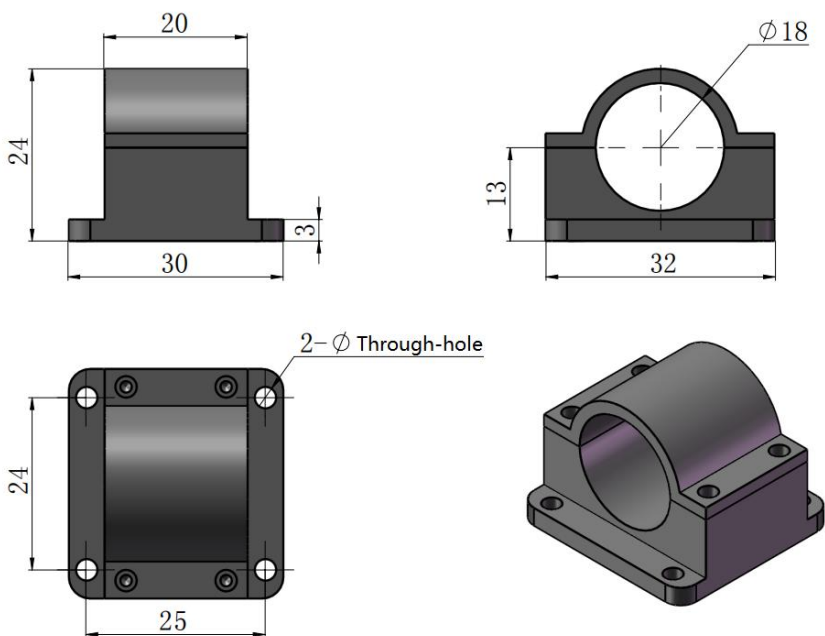


Accessories

MODULE MOUNT SPECIFICATIONS

Model type	MMU-18	
Module mounting size	mm	30 x 32x 24mm
Applicable models size Ø	mm	18mm
Through-hole Ø	mm	2mm
Through-hole distance	mm	25 x 24mm

Dimensions of module mounting (mm):



This simple mount acts as combined heat sink, electrical insulator mount for 16mm diameter diode modules. Loosen the four small set screws and remove the top half of the module mount to put the laser in. The laser is held firmly by tighten the screws. The module mount reserved 4 through-holes for user to fix the laser on a flat and thermally dissipating surface.

CONNECTOR

USB connector	Suit for access to computer control
Bayonet nut connector	Minimize distractions
Headset connector	Easy connect and disconnect

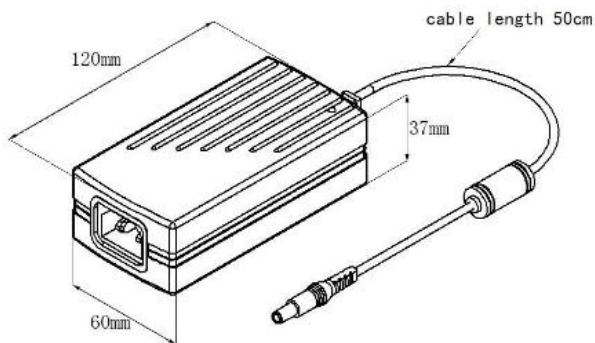
BATTERY CASE

Power supply	6-7V CR123A Lithium batteriesX2 3V AA Alkaline batteries x 2
Battery case connector	Optional, suggest using headset connector



POWER ADAPTER**

Input		85-264V AC 47/63Hz
Output		DC 5V 5A
Adapter size	mm	120 x 60 x 37mm
Adapter cable length	m	0.5m
Cable connector		Easy connect/disconnect jack
Dimensions of power adapter (mm):		



The Universal Diode Laser Module Power Supply with CE-marked provide a well-regulated 5 VDC. This auto ranging power module can be connected to any 85-264 VAC 47/63 Hz supply. There is an IEC 60320 input socket and a 0.5m output cable terminated with an easy connect/disconnect jack socket. The Headset connector which could also be found in accessories is compatible with the power supply jack.

**CNI provides other types of power adapters to meet customer demand, please contact sales for details.