中 国 长 春 新 产 业 光 电 技 术 有 限 公 司

Changchun New Industries Optoelectronics Tech. Co.，Ltd

PGL-VI-445/447/450

PGL-VI high power blue laser module at 445,447 and 450nm is made features of small size, high output power, long lifetime, which made it be used widely in collimation, laser medical treatment, scientific experiment, optical instrument and so on.

SYSTEM SPECIFICATIONS*

Wavelength	nm	445	447	450
Wavelength tolerance	nm	±10	±10	±10
Output power	mW	1-80		
Operating mode		CW		
Transverse mode		Near TEM_{00}		
Beam diameter at the aperture($1/e^2$)	mm	~4.5		
Beam divergence, full angle	mrad	<1		
Expected lifetime	hours	10000		
Warranty	years	1		

Focus adjustable laser is optional.

ELECTRICAL SPECIFICATIONS

Operating voltage(internal PCB)	6VDC
Operating voltage(internal PCB1)	5VDC(TTL30kHz and Analog0-3V,0-5V, optional)
Operating voltage(external PCB2)	5-12VDC(TTL30kHz and Analog 0-3V,0-5V, optional)
Connection	Cable with flying leads

ENVIRONMENTAL CONDITIONS

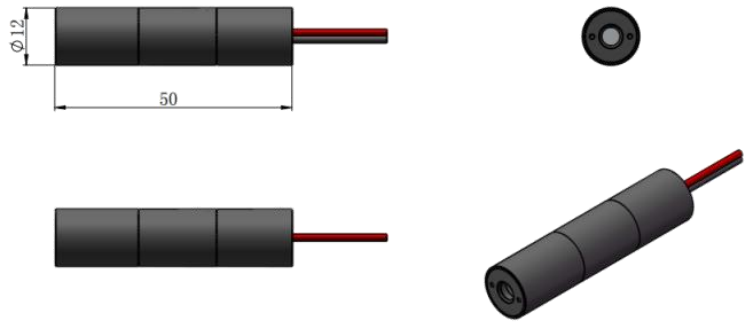
Operating temperature	0°C to 40°C
Storage temperature	-20°C to 80°C
Humidity	<90%, non-condensing
Dissipated heat	<2W

MECHANICAL SPECIFICATIONS

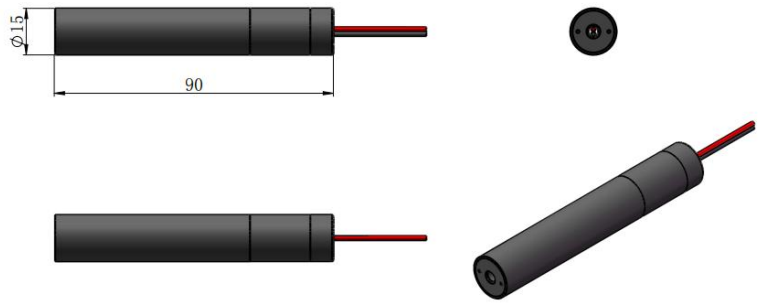
Dimensions of internal PCB	mm^2	Φ12×50
Dimensions of internal PCB1	mm^2	Φ15×90
Material		Aluminum
Shell polarity		The housing is isolated.

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

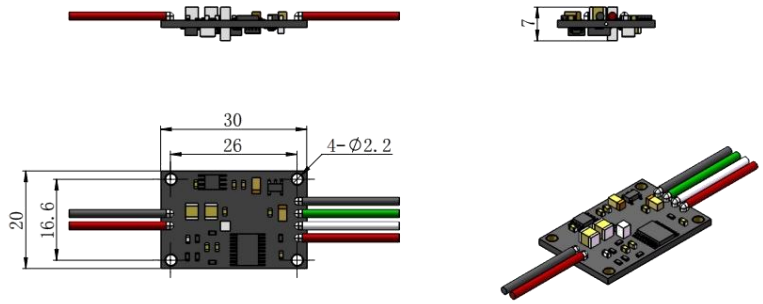
Dimensions of laser(Internal PCB,Φ12×50mm^2,6VDC)



Dimensions of laser(Internal PCB1,Φ15×90mm^2,5VDC,TTL and Analog)



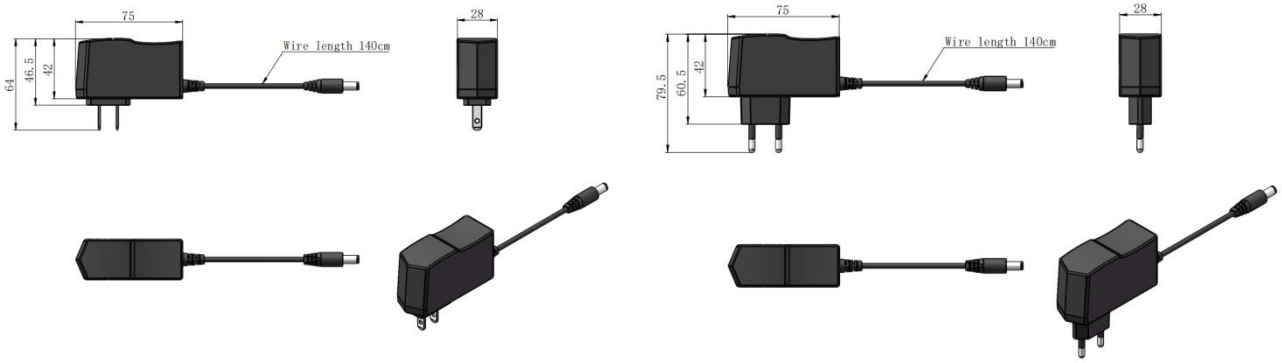
Dimensions of external PCB2(*wide voltage input range*,20×30mm^2 ,5-12VDC,TTL and Analog)



AD-6V 1A POWER ADAPTER

Input	100-240VAC 50-60Hz
Output	DC 6V 1A

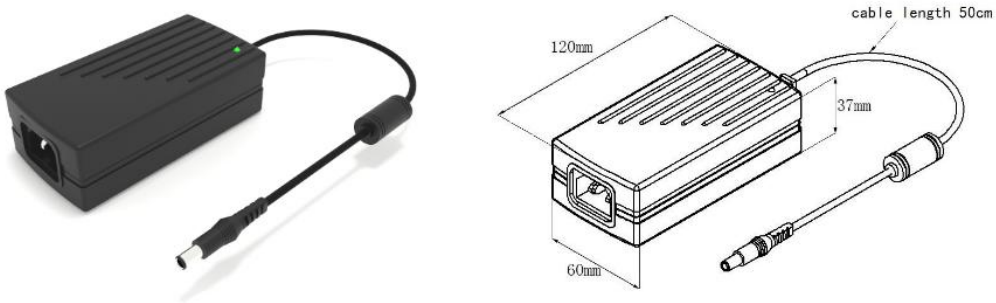
Dimensions of power adapter (mm):



AD-5V 5A POWER ADAPTER

Input	85-264VAC 47/63Hz
Output	DC 5V 5A

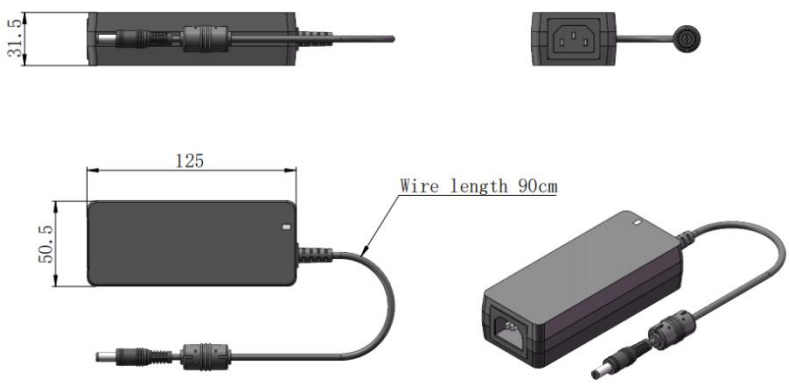
Dimensions of power adapter (mm):



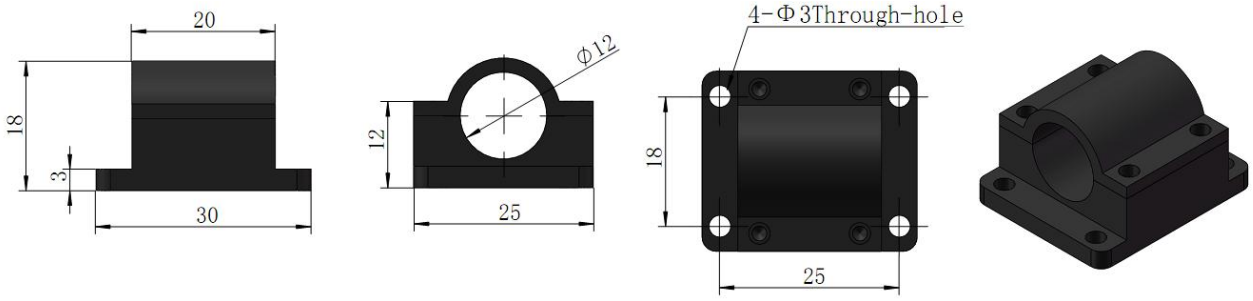
AD-12V 3.34A POWER ADAPTER

Input	100-240VAC 50/60Hz
Output	DC 12V 3.34A

Dimensions of power adapter (mm):



MODULE MOUNTING SPECIFICATIONS

Model type		MMU-12
Module mounting size	mm	30 x 25 x 18mm
Applicable models size Ø	mm	12mm
Through-hole Ø	mm	3mm
Through-hole distance	mm	25 x 18mm

Dimensions of module mounting (mm):