

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		
Output power	mW	1-80		
Operating mode		CW		
Transverse mode		Near TEM ₀₀		
Beam diameter at the aperture(1/e ²)	mm	~3.5		
Beam divergence, full angle	mrad	<1		
Expected lifetime	hours	10,000		
Warranty	months	6		

Focus adjustable laser is optional.

ELECTRICAL SPECIFICATIONS

Operating voltage(internal PCB)	6VDC(TTL10kHz)
Operating voltage(external PCB1)	5VDC(TTL30kHz or Analog0-3V,0-5V)
Operating voltage(external PCB2)	5-12VDC(TTL30kHz and Analog 0-3V,0-5V)
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

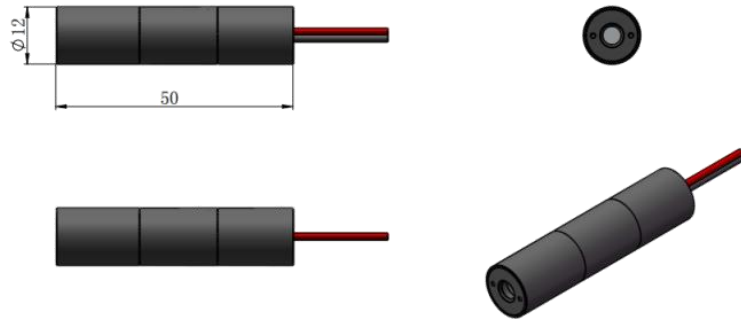
Laser head diameter Φ	mm	12
Length	mm	50
Material		Aluminum
Shell polarity		The housing has non-polarity.

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

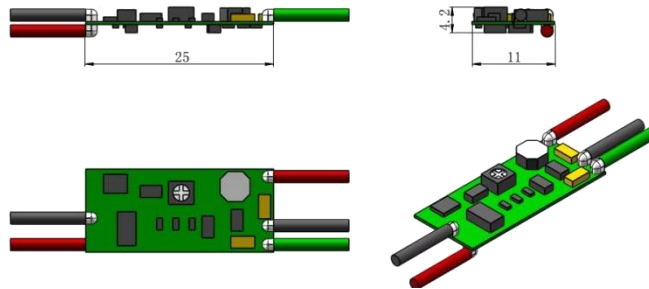


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Dimensions of laser (Internal PCB, $\Phi 12 \times 50 \text{mm}^2$, 6VDC, TTL)



Dimensions of external PCB1 ($11 \times 25 \text{mm}^2$, 5VDC, TTL or Analog)



Dimensions of external PCB2 (*wide voltage input range*, $20 \times 30 \text{mm}^2$, 5-12VDC, TTL and Analog)

