



## PGL-VI-905



Diode infrared laser module at 905nm is made features of wide range temperature operating (without TEC), high reliability, and low cost, which made it be used widely in orientation, alignment and measurement, etc.

### SYSTEM SPECIFICATIONS\*

|                                                  |       |                        |
|--------------------------------------------------|-------|------------------------|
| Wavelength                                       | nm    | 905                    |
| Wavelength tolerance                             | nm    | ±10                    |
| Output power                                     | mW    | 1-100                  |
| Operating mode                                   |       | CW                     |
| Transverse mode                                  |       | Near TEM <sub>00</sub> |
| Beam diameter at the aperture(1/e <sup>2</sup> ) | mm    | ~4.5                   |
| Beam divergence, full angle                      | mrاد  | <1                     |
| Expected lifetime                                | hours | 10000                  |
| Warranty                                         | years | 1                      |

*Focus adjustable laser is optional.*

### ELECTRICAL SPECIFICATIONS

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| Operating voltage(internal PCB)  | 3VDC                                             |
| 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       | < 1W                   |

### MECHANICAL SPECIFICATIONS

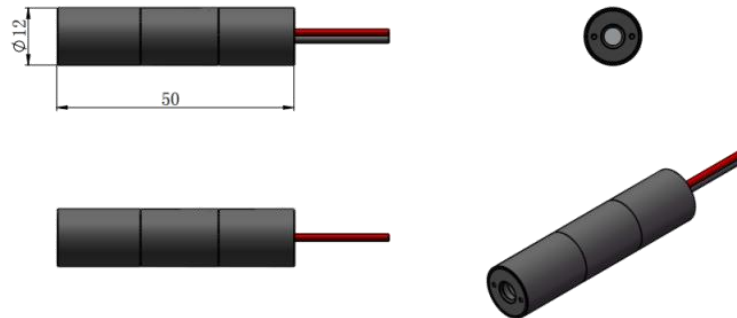
|                             |                 |                          |
|-----------------------------|-----------------|--------------------------|
| Dimensions of internal PCB  | mm <sup>2</sup> | Φ12×50                   |
| Dimensions of internal PCB1 | mm <sup>2</sup> | Φ15×90                   |
| Material                    |                 | Aluminum                 |
| Shell polarity              |                 | The housing is isolated. |

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

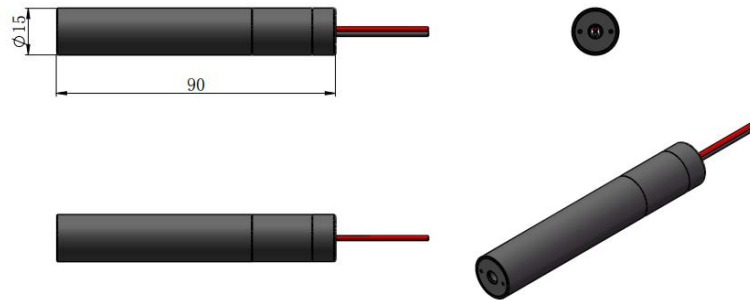


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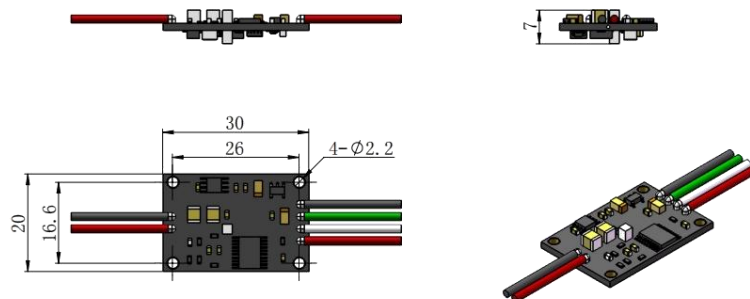
Dimensions of laser(Internal PCB,  $\Phi 12 \times 50 \text{mm}^2$ , 3VDC)



Dimensions of laser(Internal PCB1,  $\Phi 15 \times 90 \text{mm}^2$ , 5VDC, TTL and Analog)



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

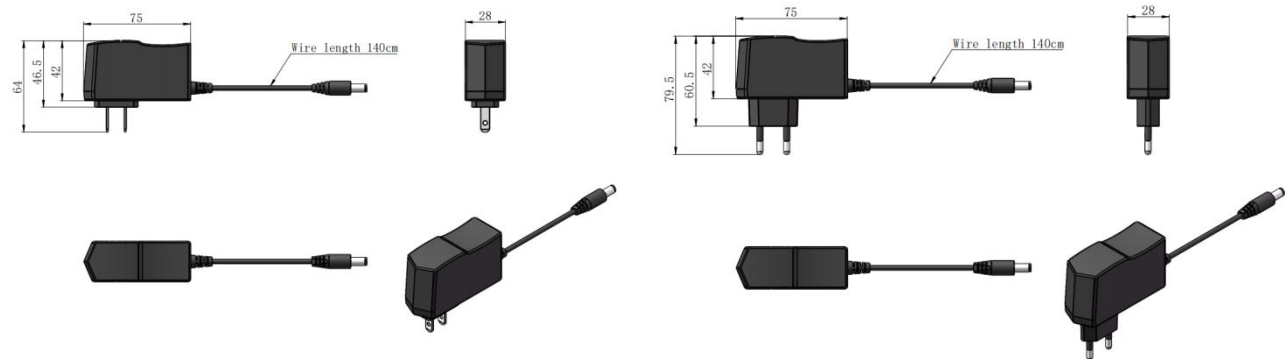




AD-3V 1A POWER ADAPTER

|        |                    |
|--------|--------------------|
| Input  | 100-240VAC 50-60Hz |
| Output | DC 3V 1A           |

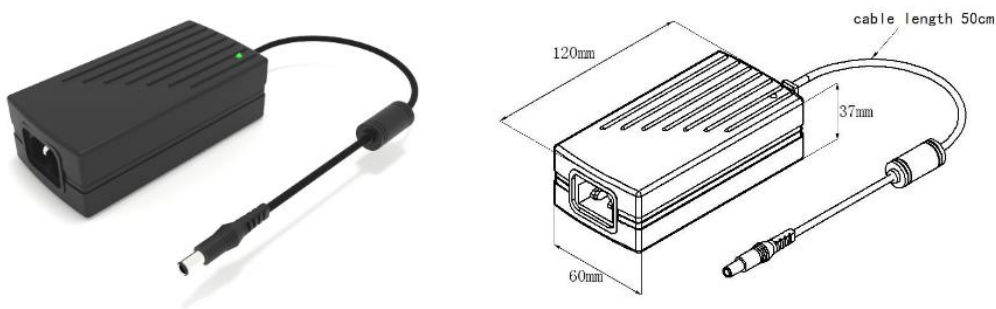
Dimensions of power adapter (mm):



AD-5V 5A POWER ADAPTER

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

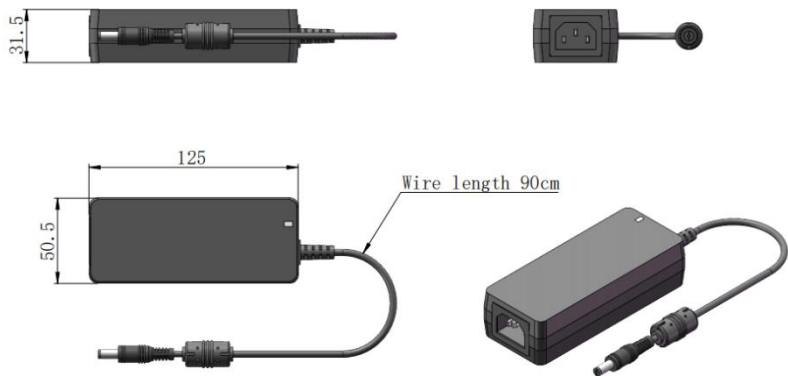
Dimensions of power adapter (mm):



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): |    |                |

