

## PGL-VI-850



Diode infrared laser module at 850nm is made features of ultra compact, long lifetime, low cost and easy operating, which made it be used widely in measurement, spectrum analysis and laser show, etc.

### SYSTEM SPECIFICATIONS\*

|                                                  |       |                        |
|--------------------------------------------------|-------|------------------------|
| Wavelength                                       | nm    | 850                    |
| 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    | ~3.5                   |
| Beam divergence, full angle                      | mrad  | <1                     |
| Expected lifetime                                | hours | 10000                  |
| Warranty                                         | years | 1                      |

*Focus adjustable laser is optional.*

### ELECTRICAL SPECIFICATIONS

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| Operating voltage(internal PCB)  | 3VDC (TTL10kHz, optional)                        |
| Operating voltage(external PCB1) | 5VDC(TTL30kHz or 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

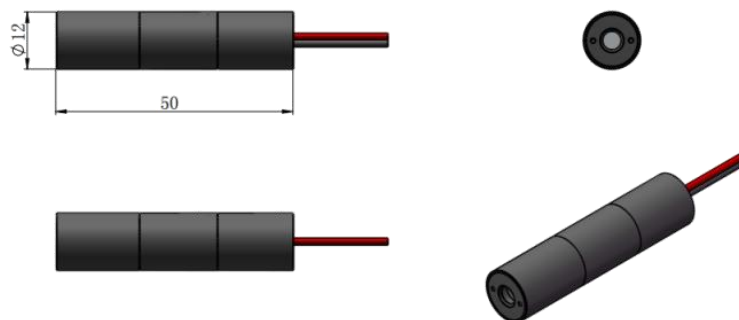
|                       |                        |
|-----------------------|------------------------|
| Operating temperature | 0°C to 40°C            |
| Storage temperature   | -20°C to 80°C          |
| Humidity              | < 90 %, non-condensing |
| Dissipated heat       | < 1W                   |

### MECHANICAL SPECIFICATIONS

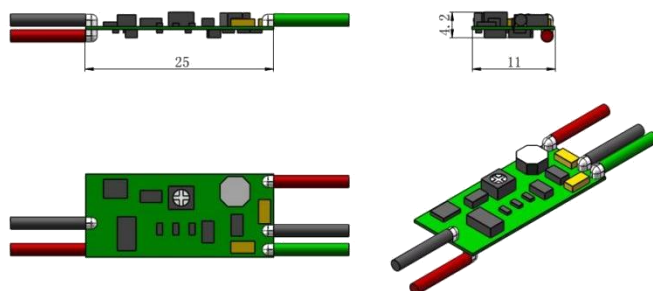
|                       |    |                          |
|-----------------------|----|--------------------------|
| Laser head diameter Φ | mm | 12                       |
| Length                | mm | 50                       |
| Material              |    | Aluminum                 |
| Shell polarity        |    | The housing is isolated. |

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

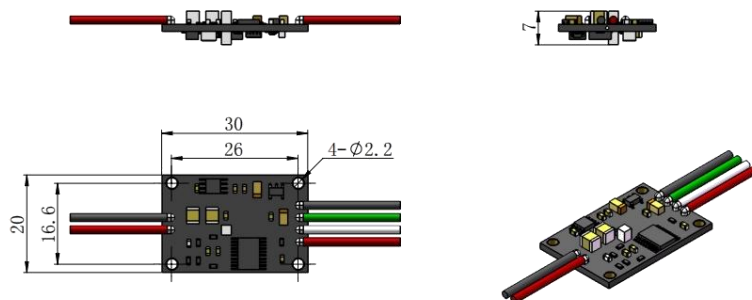
Dimensions of laser(Internal PCB,  $\Phi 12 \times 50 \text{mm}^2$ , 3VDC, TTL)



Dimensions of external PCB1(11×25mm<sup>2</sup>, 5VDC, TTL or Analog)



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

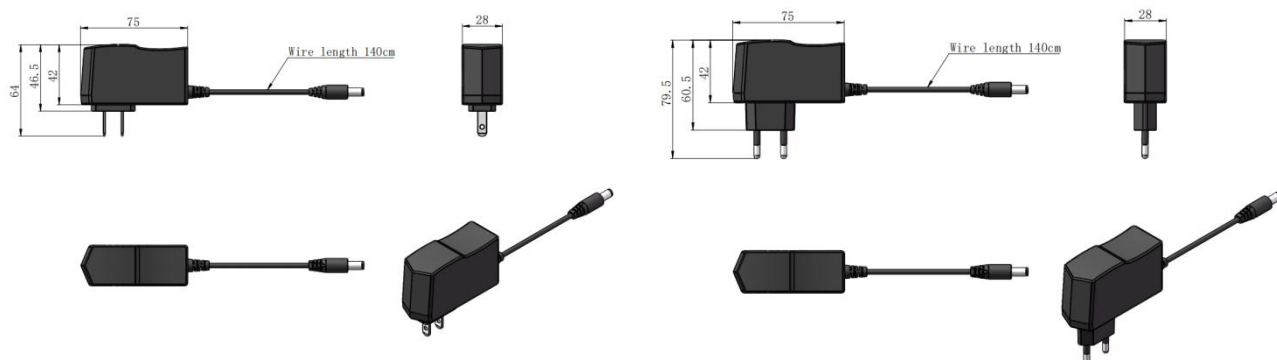


### AD-3V 1A POWER ADAPTER

Input 100-240VAC 50-60Hz

Output DC 3V 1A

Dimensions of power adapter (mm):

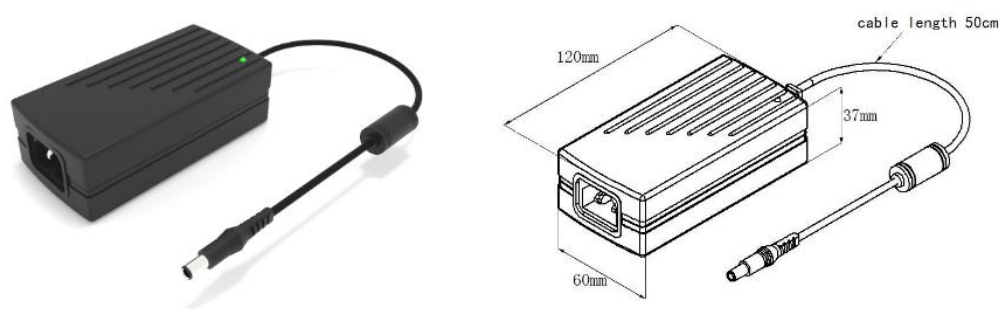


### AD-5V 5A POWER ADAPTER

Input 85-264VAC 47/63Hz

Output DC 5V 5A

Dimensions of power adapter (mm):

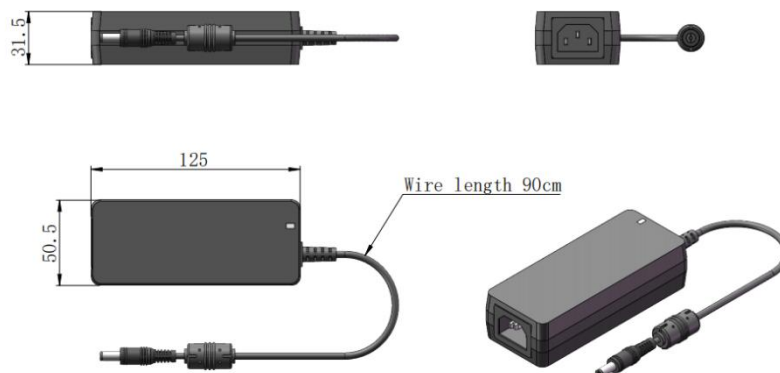


### AD-12V 3.34A POWER ADAPTER

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 $\varnothing$ | mm | 12mm           |
| Through-hole $\varnothing$           | mm | 3mm            |
| Through-hole distance                | mm | 25 x 18mm      |
| Dimensions of module mounting (mm):  |    |                |

