中 国 长 春 新 产 业 光 电 技 术 有 限 公 司

**Changchun New Industries Optoelectronics Tech. Co.，Ltd**

# PGL-VI-589

All solid state orange laser at 589nm is made features of ultra compact, long lifetime, low cost and easy operating, which made it be used widely in scientific experiment, optical sensor, measurement, instrument, communication and spectrum analysis, etc.

## SYSTEM SPECIFICATIONS*

| | | |
|---|---|---|
| Wavelength | nm | 589 |
| Wavelength tolerance | nm | ±2 |
| Output power | mW | 1-20 |
| Operating mode | | CW |
| Transverse mode | | $TEM_{00}$ |
| Beam diameter at the aperture($1/e^2$) | mm | ~1.5 |
| Beam divergence, full angle | mrad | <1.5 |
| Expected lifetime | hours | 10000 |
| Warranty | years | 1 |

## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Operating voltage(internal PCB) | 3VDC |
| Operating voltage(external PCB) | 3VDC |
| Connection | Cable with flying leads |

## ENVIRONMENTAL CONDITIONS

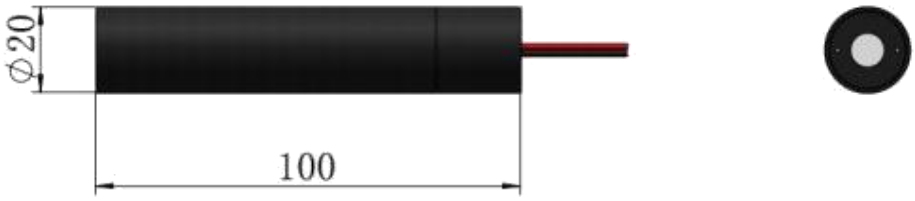
| | |
|---|---|
| Operating temperature | 10°C to 35°C |
| Storage temperature | -20°C to 80°C |
| Humidity | <90%, non-condensing |
| Dissipated heat | <6W |

## MECHANICAL SPECIFICATIONS

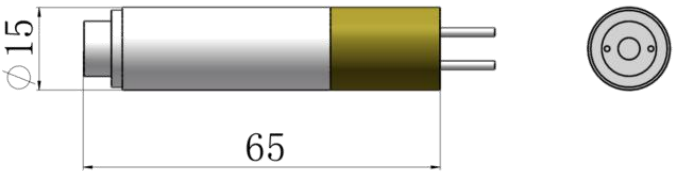
| | |
|---|---|
| Dimensions of PGL-VI-589 | Φ20×100$mm^2$ |
| Dimensions of PGL-VI-1-589 | Φ15×65$mm^2$ |
| Material | Aluminum/Copper |
| Shell polarity | The housing has a positive electrode. |

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

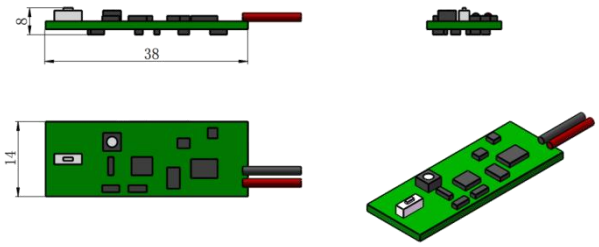
Dimensions of PGL-VI-589(Internal PCB,Φ20×100mm$^2$,3VDC)

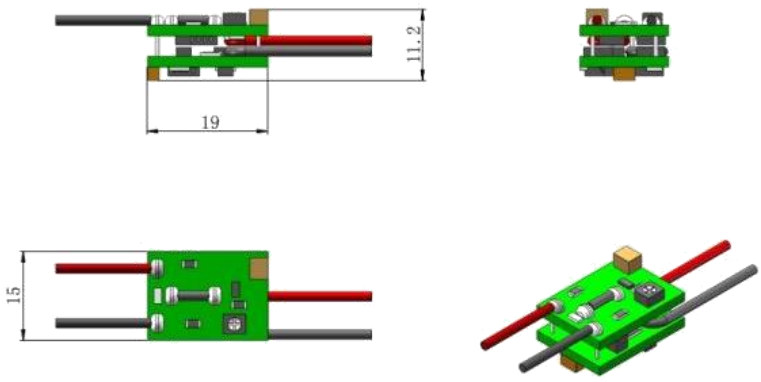



Dimensions of PGL-VI-1-589(external PCB,Φ15×65mm$^2$,3VDC,internal control 750hz frequency)




Dimensions of external PCB1(38×14×8mm$^3$,3VDC)




Dimensions of external PCB(19×15×11.2mm$^3$,3VDC)