



## 405nm Fiber Coupled UV LED

Model No. LED405-AM-Q

### Overview

The LED405 series fiber coupled LED is ideal for applications that require a wavelength of 405nm. The LED features stable output intensity, long operating lifetime and high power. The LED is widely used in spectroscopy, optogenetics, fluorescence excitation, and many other applications.



### Specifications

| Model Number  | LED405-AM-Q  |
|---|--|
| Nominal wavelength (nm)                                     | 405  |
| Color   | UV   |
| Bandwidth FWHM (nm)   | 12   |
| Fiber connector   | SMA905   |
| Numerical aperture (NA)                                     | 0.22   |
| Fiber core diameter   | 600um  |
| Typical $\phi$ 600 $\mu$ m core fiber output power SMA (mW) | 4.2  |
| Maximum current CW (mA)                                     | 1400   |
| Forward voltage (V)   | 3.45   |
| Output power stability (rms, over 4 hours)                  | <5%  |
| Dimensions of LED head                                      | 64 (L) x46.5 (W) x30 (H) mm <sup>3</sup>   |
| Weight of LED head  | 0.2kg  |
| Input Voltage   | 5V DC  |
| Dimensions of Power supply                                  | 114 (L) x78 (W) x71 (H) mm <sup>3</sup>  |
| Weight of Power supply                                      | 0.3kg  |
| Operating mode  | CW ( <b>Q=C</b> );<br>CW with TTL modulation: 1Hz-1kHz ( <b>Q=T1</b> ), 1kHz-10kHz ( <b>Q=T2</b> );<br>CW with Analog modulation: 1Hz-1kHz ( <b>Q=A1</b> ), 1kHz-10kHz ( <b>Q=A2</b> ) |
| Operating temperature (°C)                                  | 10 to 35 °C  |
| Typical lifetime (h)  | ~10,000  |

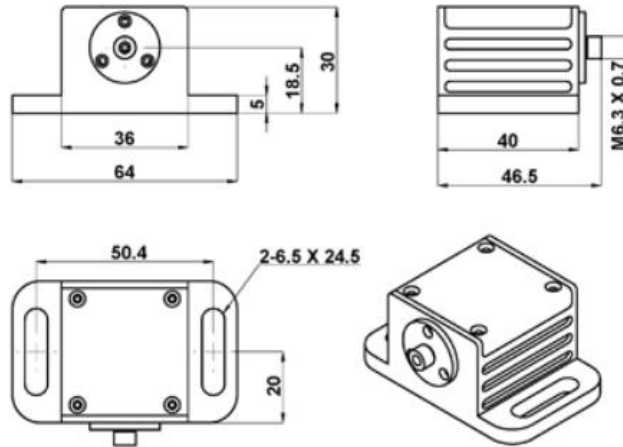
#### Remarks:

- The above testing data are only for reference. The actual spectrum of LED may change since the temperature or other parameters are different when operating the current.
- Other core diameter fibers may be available on request.
- Specifications are subject to change without notice.

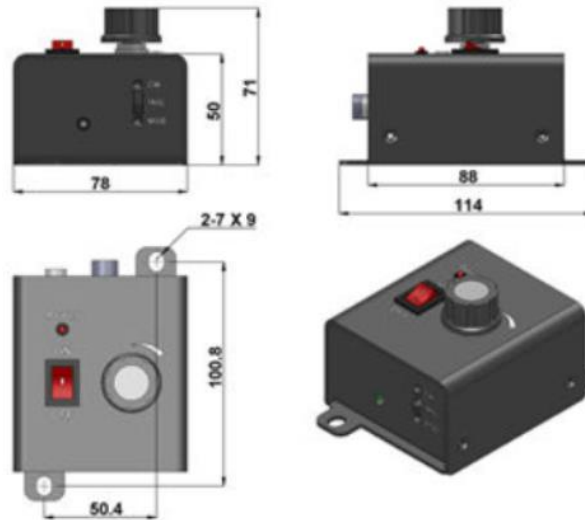


**Outline Dimensions (unit: mm)**

**LED Head**



**Power Supply**



Note: The above specifications are subject to change without notice.