

## MGL-III-589/1~50mW



### LD PUMPED ALL-SOLID-STATE YELLOW LASER AT 589nm

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



### SPECIFICATIONS

|   |   |             |                |
|---|---|-------------|----------------|
| Wavelength (nm)                                     | 589 ± 1   |             |                |
| Operating mode                                      | CW  |             |                |
| Output power (mW)                                   | >1, 2, 10, ..., 50  |             |                |
| Power stability (rms, over 4 hours)                 | <2% , <3%, <5%  |             |                |
| Transverse mode                                     | TEM <sub>00</sub>   |             |                |
| M <sup>2</sup> factor                               | <1.5  |             |                |
| Beam diameter at the aperture 1/e <sup>2</sup> (mm) | ~1.2  |             |                |
| Beam divergence, full angle (mrad)                  | <1.5  |             |                |
| Warm-up time (minutes)                              | <10   |             |                |
| Pointing stability after warm-up (mrad)             | <0.05   |             |                |
| Beam height from base plate (mm)                    | 24.8  |             |                |
| Polarization ratio                                  | >100:1, Horizontal±5 degree (Vertical Optional)                             |             |                |
| Operating temperature (°C)                          | 10~35   |             |                |
| Power supply (90-264VAC or 5VDC)                    | PSU-III-LED   | PSU-III-FDA | PSU-III-OEM-97 |
| Modulation option                                   | TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation option |             |                |
| Expected lifetime (hours)                           | 10000   |             |                |
| Warranty  | 1 year  |             |                |



| MGL-III-589  | PSU-III-LED  | PSU-III-FDA  | PSU-III-OEM-97                                      |
|--|--|--|---|
| <p>140.5 (L) × 73 (W) × 46.2 (H) mm<sup>3</sup>, 0.6kg</p> | <p>153 (L) × 155(W) × 92 (H) mm<sup>3</sup>, 1.5kg</p> | <p>133 (L) × 130(W) × 62.2 (H) mm<sup>3</sup>, 1.2kg</p> | <p>94(L) × 75(W) × 49(H) mm<sup>3</sup>, 0.23kg</p> |