

# Opto Engine LLC

## Data sheet

Rev. 0912

MLL-III-543/1~100mW

### LOW NOISE GREEN LASER AT 543 nm




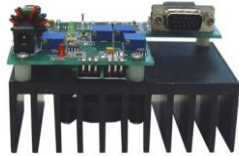
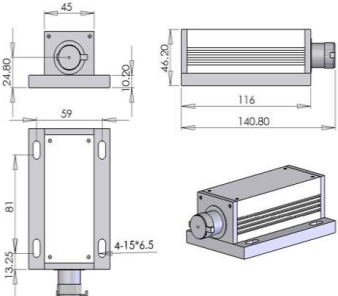
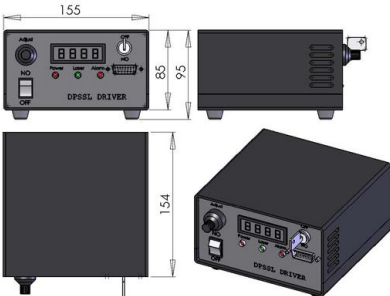
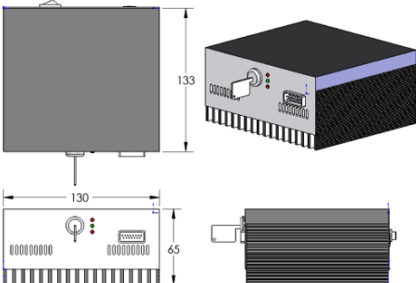
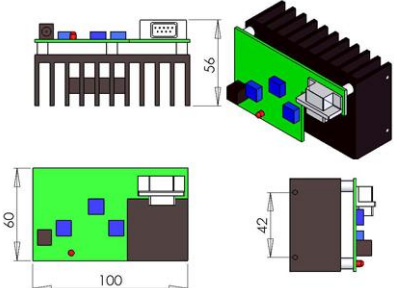
Low noise green laser at 543 nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in scientific experiment, optical sensor, measurement, instrument, communication, spectrum analysis, etc.



#### SPECIFICATIONS

|   |                          |             |             |
|---|--------------------------|-------------|-------------|
| Wavelength (nm)                         | 543±1                    |             |             |
| Output power (mW)                       | >1, 5, 10, 20, ... , 100 |             |             |
| Transverse mode                         | TEM <sub>00</sub>        |             |             |
| Operating mode                          | CW                       |             |             |
| Power stability (rms, over 4 hours)     | <1%, <3%, <5%            |             |             |
| Noise of amplitude (rms, 1~20MHz)       | <1%                      |             |             |
| Warm-up time (minutes)                  | <10                      |             |             |
| M <sup>2</sup> factor                   | <1.2                     |             |             |
| Beam divergence, full angle (mrad)      | <1.5                     |             |             |
| Beam diameter at the aperture (mm)      | ~2.0                     |             |             |
| Beam height from base plate (mm)        | 24.8                     |             |             |
| Polarization ratio                      | >100:1 (0 or 90 degree)  |             |             |
| Pointing stability after warm-up (mrad) | <0.05                    |             |             |
| Operating temperature (°C)              | 10~35                    |             |             |
| Power supply (90-264VAC or 5VDC)        | PSU-III-LED              | PSU-III-FDA | PSU-III-OEM |
| Expected lifetime (hours)               | 10000                    |             |             |
| Warranty                                | 1 year                   |             |             |



| MxL-III-543   | PSU-III-LED  | PSU-III-FDA   | PSU-III-OEM   |
|---|--|---|---|
|   |    |   |   |
| 140.8(L)×73(W)×46.2(H) mm <sup>3</sup> , 0.6kg                                      | 154 (L) ×155(W) ×95 (H) mm <sup>3</sup> , 1.5kg                                      | 133 (L) ×130(W) ×65 (H) mm <sup>3</sup> , 1.2kg                                       | 100 (L) ×60(W) ×56 (H) mm <sup>3</sup> , 0.2kg  |
|  |  |  |  |