

# Opto Engine LLC

## Data sheet

Rev. 0912

MRL-III-635 /1~500mW

### RED DIODE LASER At 635nm




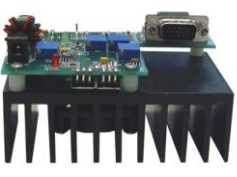
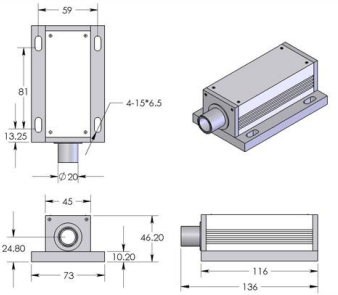
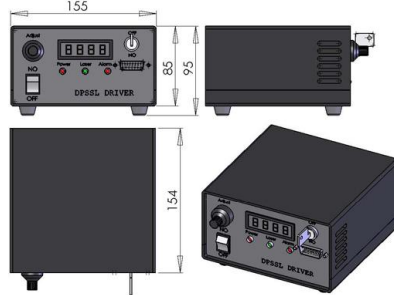
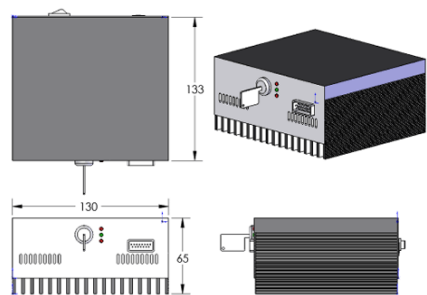
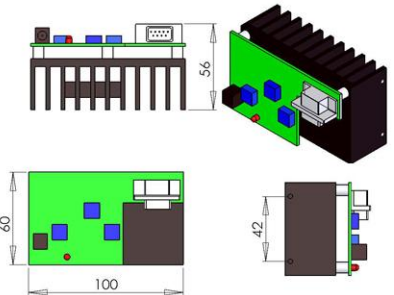
Diode red laser 635nm is made features of ultra compact, long lifetime, low cost and easy operating, which is widely used in measurement, spectrum analysis, laser lighting show, etc.



#### SPECIFICATIONS

|   |  |             |             |
|---|--|-------------|-------------|
| Wavelength (nm)                         | 635±5  |             |             |
| Output power (mW)                       | >1, 100, 200, ... , 500                            |             |             |
| Transverse mode                         | Near TE <sub>00</sub>                              |             |             |
| Operating mode                          | CW   |             |             |
| Power stability (rms, over 4 hours)     | <1%, <3%, <5%                                      |             |             |
| Warm-up time (minutes)                  | <5   |             |             |
| M <sup>2</sup> factor                   | <20  |             |             |
| Beam divergence, full angle (mrad)      | <2.5   |             |             |
| Dimensions of beam at the aperture (mm) | ~5×8   |             |             |
| Beam height from base plate (mm)        | 24. 8  |             |             |
| Polarization ratio                      | >50:1  |             |             |
| 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 |
| TTL / Analog modulation                 | Optional, 2kHz or higher (on request, up to 30kHz) |             |             |
| Expected lifetime (hours)               | 10000  |             |             |
| Warranty                                | 1 year   |             |             |



| MxL-III-635   | 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  |
|  |  |  |  |