

**MLL-III-650/1-1000mW**

**SPECIFICATIONS**



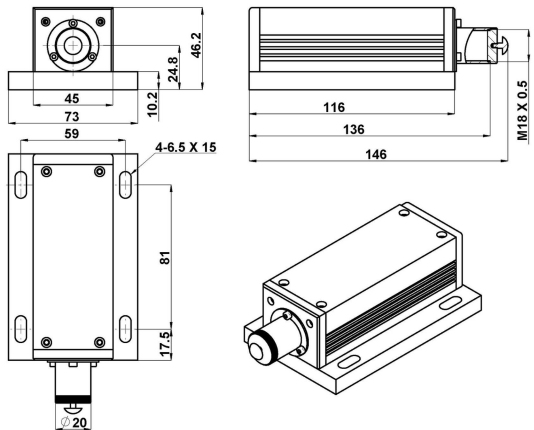
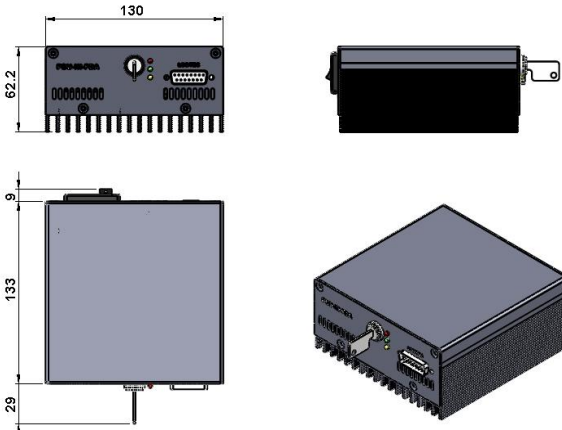
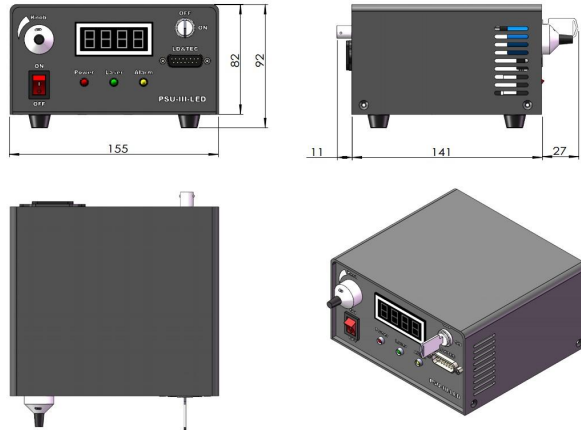
**LOW NOISE RED DIODE  
LASER AT 650nm**

It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in medical imaging, flow cytometry, DNA sequencing, etc.



|                                      |                                                                                  |
|--------------------------------------|----------------------------------------------------------------------------------|
| Central wavelength (nm)              | 650±12                                                                           |
| Operating mode                       | CW                                                                               |
| Output power (mW) <sup>1</sup>       | 1-1000                                                                           |
| Power stability (rms, 4 hours ± 3°C) | <2%, <1%, <0.5%                                                                  |
| Transverse mode                      | Multimode                                                                        |
| Noise of amplitude (rms, 20Hz-20MHz) | <1%, <0.5%                                                                       |
| Beam diameter at the aperture (mm)   | ~10×5                                                                            |
| Beam divergence, full angle (mrad)   | <3.0                                                                             |
| Warm-up time (minutes)               | <5                                                                               |
| Cooled method                        | Conduction                                                                       |
| Beam height from base plate (mm)     | 24.8                                                                             |
| Operating temperature (°C)           | 10-35                                                                            |
| Power supply (100-240VAC)            | PSU-III-FDA/PSU-III-LED/PSU-A-D/PSU-III-OEM                                      |
| Modulation option                    | DC-1kHz, 1kHz-10kHz, 10kHz-30kHz, 30kHz-100kHz optional; TTL and Analog optional |
| Expected lifetime (hours)            | >10000                                                                           |



| LASER HEAD                                                                                                                                                              | POWER SUPPLY (PSU-III-FDA) <sup>2</sup>                                                                                                                                   | POWER SUPPLY (PSU-III-LED) <sup>3</sup>                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p style="text-align: center;">146 (L) × 73 (W) × 46.2 (H) mm<sup>3</sup>, 0.7kg</p> |  <p style="text-align: center;">171 (L) × 130 (W) × 62.2 (H) mm<sup>3</sup>, 1.2kg</p> |  <p style="text-align: center;">179 (L) × 155 (W) × 92 (H) mm<sup>3</sup>, 1.5kg</p> |

| POWER SUPPLY (PSU-A-D) <sup>4</sup>                                                                                                       | DRIVER (PSU-III-OEM) <sup>2</sup>                                                                                                           | POWER SUPPLY (100-240VAC) optional                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>162 (L) × 144 (W) × 70 (H) mm<sup>3</sup>, 1.0kg</p> |  <p>100 (L) × 62 (W) × 55.2 (H) mm<sup>3</sup>, 0.5kg</p> |  <p>125.7 (L) × 50.2 (W) × 31.8 (H) mm<sup>3</sup>, 0.3kg</p> |

1 Any power level can be selected in this range.

2 Fixed output power; Modulation up to 30kHz.

3 Output power adjustable 10-100%; RS232 control optional; Modulation up to 30kHz.

4 Output power adjustable 10-100%; RS232 control optional; Modulation up to 100kHz.