

TEM-F-640/1~100mW (TEM<sub>00</sub>)



**RED DIODE LASER  
AT 640nm**

It features TEM<sub>00</sub> mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

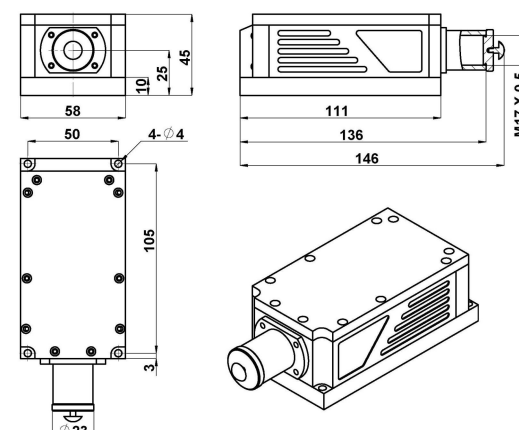
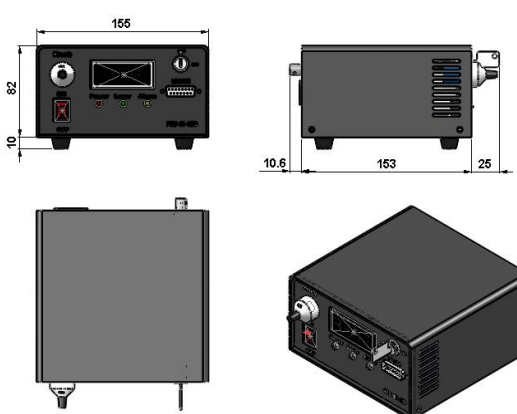
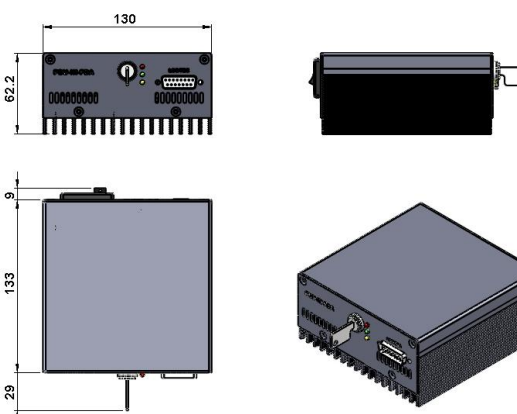


SPECIFICATIONS

|  |  |             |
|--|--|-------------|
| Central wavelength (nm)                              | 640±5  |             |
| Operating mode                                       | CW   |             |
| Output power (mW)                                    | >1,2,3.....,100  |             |
| Power stability (rms, over 4 hours) 25℃              | <1%, <2%, <3%  |             |
| Transverse mode                                      | TEM <sub>00</sub>  |             |
| Ellipticity  | >0.95  |             |
| M <sup>2</sup> factor                                | <1.1   |             |
| Beam diameter at the aperture (1/e <sup>2</sup> ,mm) | ~1.0   |             |
| Beam divergence, full angle (mrad)                   | <1.5   |             |
| Warm-up time (minutes)                               | <5   |             |
| Beam height from base plate (mm)                     | 25   |             |
| Operating temperature (℃)                            | 25+/-3   |             |
| Power supply (85-264VAC)                             | PSU-III-LED  | PSU-III-FDA |
| TTL / Analog modulation                              | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional |             |
| Expected lifetime (hours)                            | 10000  |             |
| Warranty   | 1 year   |             |



Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-640   | PSU-III-LED   | PSU-III-FDA  |
|---|---|--|
|  <p>146 (L) × 58 (W) × 45 (H) mm<sup>3</sup>, 0.7kg</p> |  <p>188.6 (L) × 155 (W) × 92 (H) mm<sup>3</sup>, 1.5kg</p> |  <p>171 (L) × 130 (W) × 62.2 (H) mm<sup>3</sup>, 1.2kg</p> |