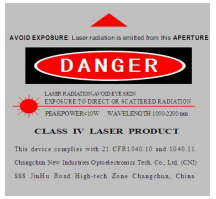
# TEM-F-1060/1-500mW

## INFRARED DIODE LASER AT 1060nm

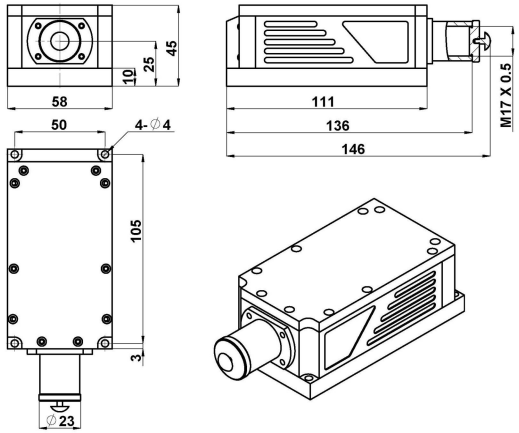
It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc.

**SPECIFICATIONS**

| | | | |
|---|---|---|---|
| Central wavelength (nm) | 1060±10 | 1060±5 | 1060±5 |
| Operating mode | CW | | |
| Output power (mW)[1] | 1-10 | 10-50 | 50-500 |
| Power stability (rms, 4 hours ± 3°C) | <2%, <1%, <0.5% | | |
| Transverse mode | $TEM_{00}$ | | |
| Ellipticity | >0.95 | | |
| $M^2$ | <1.1 | | |
| Beam diameter at the aperture ($1/e^2$, mm) | ~1.0 | | |
| Beam divergence, full angle (mrad) | <1.5 | | |
| Warm-up time (minutes) | <5 | | |
| Beam height from base plate (mm) | 25 | | |
| Operating temperature (°C) | 25±3 | | |
| Power supply (100-240VAC) | PSU-III-FDA/PSU-III-LED/PSU-A-D | | |
| Modulation option | DC-1kHz, 1kHz-10kHz, 10kHz-30kHz, 30kHz-100kHz optional; TTL and Analog optional | | |
| Expected lifetime (hours) | >10000 | | |

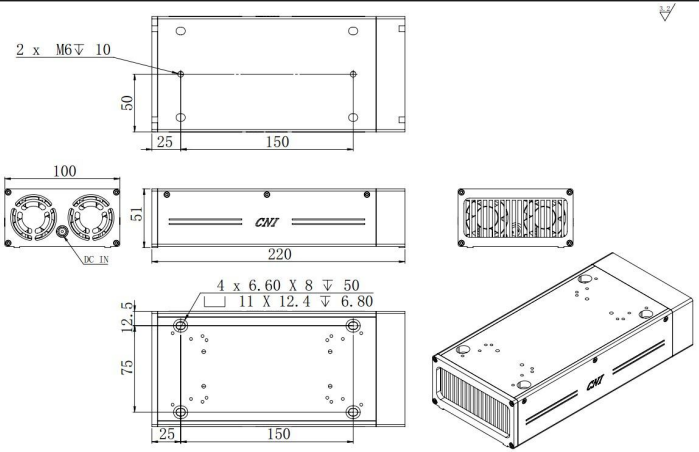



## LASER HEAD[2]




146 (L) ×58 (W) ×45 (H) $mm^3$, 0.7kg

## HEATSINK (TC-06) optional




220 (L) ×100 (W) ×51 (H) $mm^3$, 0.6kg

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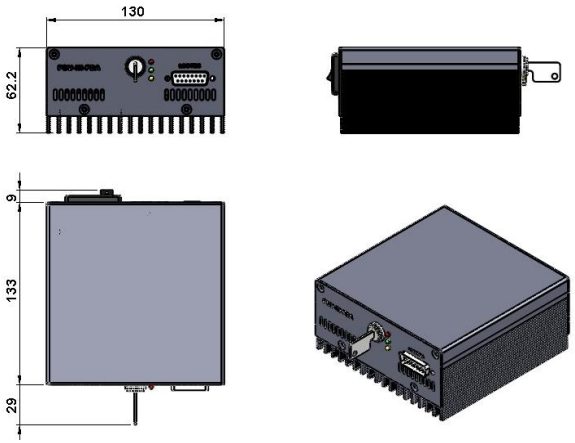
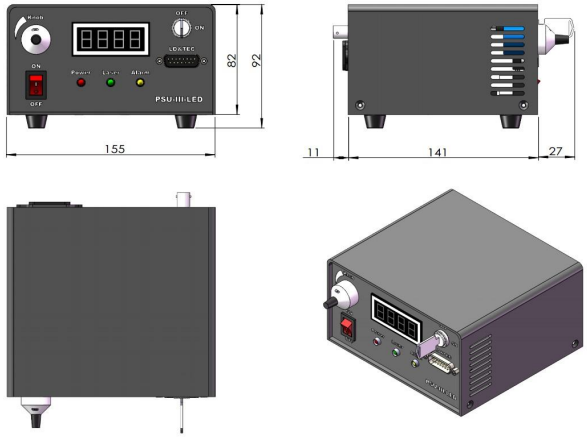
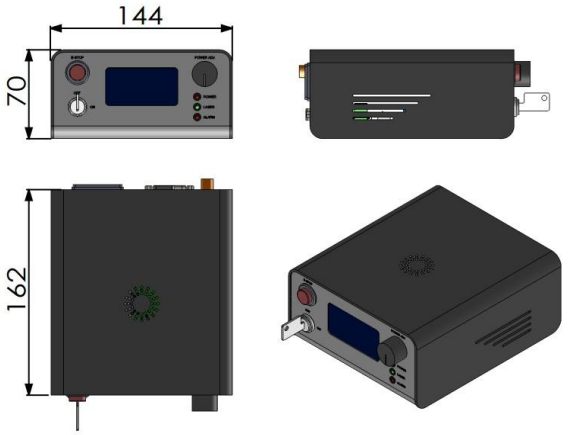
| POWER SUPPLY (PSU-III-FDA)[3] | POWER SUPPLY (PSU-III-LED)[4] | POWER SUPPLY (PSU-A-D)[5] |
|---|---|---|
|  |  |  |
| 171 (L) ×130 (W) ×62.2 (H) mm³, 1.2kg | 179 (L) ×155 (W) ×92 (H) mm³, 1.5kg | 162 (L) ×144 (W) ×70 (H) mm³, 1.0kg |

1 Any power level can be selected in this range.

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

3 Fixed output power; Modulation up to 30kHz.

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

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