# MDL-III-425/1-500mW

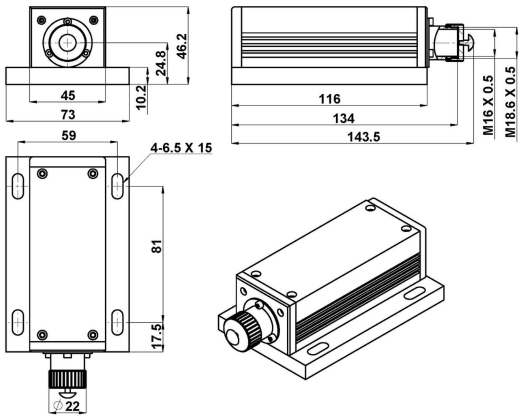
## BLUE DIODE LASER AT 425nm

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

**SPECIFICATIONS**

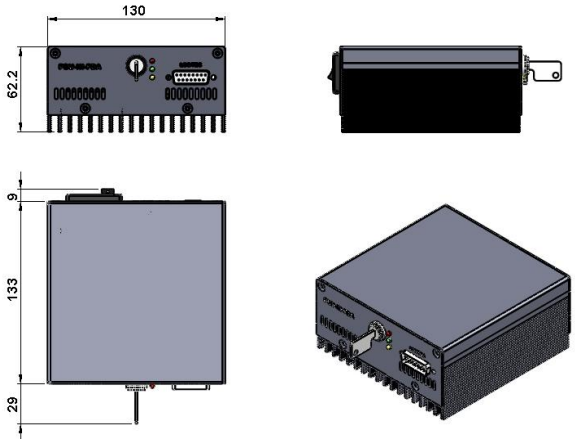
| | |
|---|---|
| Central wavelength (nm) | 425±5 |
| Operating mode | CW |
| Output power (mW)[1] | 1-500 |
| Power stability (rms, 4 hours ± 3°C) | <2%, <1%, <0.5% |
| Transverse mode | Multimode |
| Beam diameter at the aperture (1/e², mm) | <2×5 |
| Beam divergence, full angle (mrad) | <2.5×0.2 |
| 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



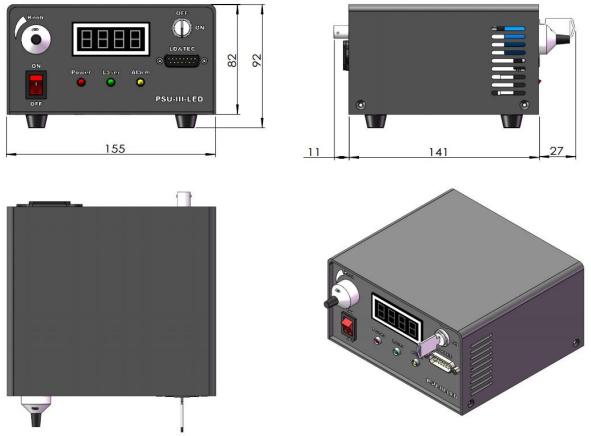

143.5 (L) ×73 (W) ×46. 2 (H) mm³, 0.7kg

### POWER SUPPLY (PSU-III-FDA)[2]



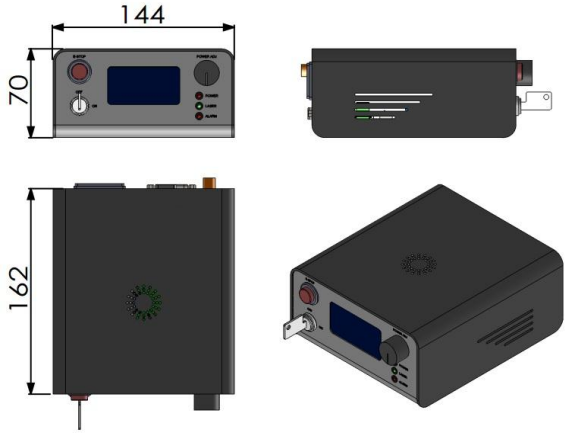
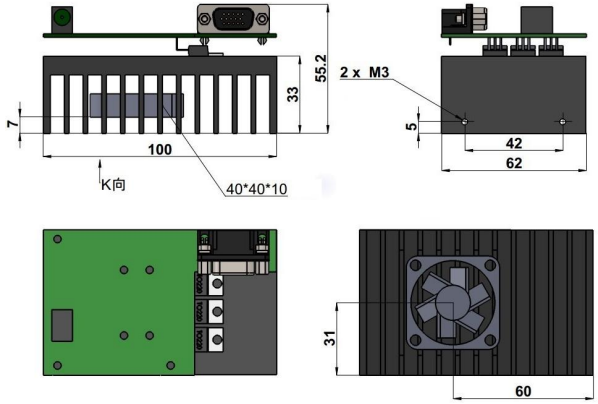
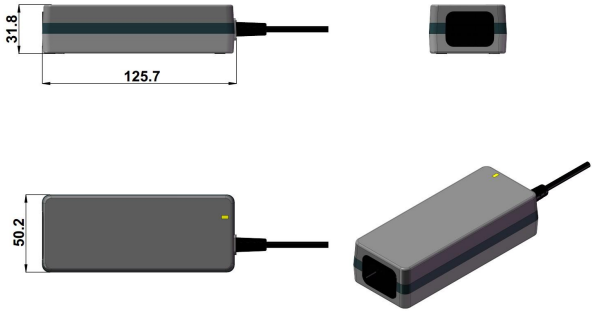

171 (L) ×130 (W) ×62.2 (H) mm³, 1.2kg

### POWER SUPPLY (PSU-III-LED)[3]




179 (L) ×155 (W) ×92 (H) mm³, 1.5kg

Website: http://www.cnilaser.com E-mail: sales@cnilaser.com Tel: +86-431-85603799 Fax: +86-431-89216068

| POWER SUPPLY (PSU-A-D)[4] | DRIVER (PSU-III-OEM)[2] | POWER SUPPLY (100-240VAC) optional |
|---|---|---|
|  |  |  |
| **162 (L) ×144 (W) ×70 (H) mm³, 1.0kg** | **100 (L) ×62 (W) ×55.2 (H) mm³, 0.5kg** | **125.7 (L) ×50.2 (W) ×31.8 (H) mm³, 0.3kg** |

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.