

F-442-HS/1-4000mW



**BLUE DIODE LASER
AT 442nm**

It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are widely used in measurement, communication, spectrum analysis, etc.



SPECIFICATIONS

| | | |
|---|--|-----------------------|
| Central wavelength (nm) | 442±5 | |
| Operating mode | CW | |
| Output power (mW) | >1, 100, 1000, ...,2000 | >2000, 2500, ...,4000 |
| Power stability (rms, over 4 hours) | <3%, <2%, <1%, <0.5% | |
| Transverse mode | Multimode | |
| Beam diameter at the aperture (1/e ² , mm) | ~2.7×2.7 | ~3.5×3.5 |
| Beam divergence, full angle (mrad) | 1.4×0.2 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 45 | |
| Operating temperature (°C) | 10-35 | |
| 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 | |



| F-442-HS | PSU-III-LED | PSU-III-FDA |
|--|---|---|
| <p>171 (L) × 75 (W) × 65 (H) mm³, 1.0kg</p> | <p>188.6 (L) × 155 (W) × 92 (H) mm³, 1.5kg</p> | <p>171 (L) × 130 (W) × 62.2 (H) mm³, 1.2kg</p> |