

MBL-F-457/1~1000mW



LD PUMPED ALL-SOLID-STATE BLUE LASER

All solid state 457nm blue laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in fluorescence sensors, Raman spectrum, laser printing, holography, laser display, submarine communication, biomedicine, laser lighting show, etc.

SPECIFICATIONS

| | | |
|---|---|--|
| Wavelength (nm) | 457 ± 1 | |
| Operating mode | CW | |
| Output power (mW) | >30, ..., 400 | >400, 550, 600, ..., 1000 |
| Power stability (rms, over 4 hours) | <3%, <5%, <10% | <5%, <10% |
| Transverse mode | Near TEM ₀₀ | Near TEM ₀₁ , (Near TEM ₀₀ on request) |
| M ² factor | <2. 0 | |
| Beam diameter at the aperture (1/e ² , mm) | ~3. 0 | |
| Beam divergence, full angle (mrad) | <1. 5 | |
| Polarization ratio | >100:1 | |
| Warm-up time (minutes) | <10 | |
| Pointing stability after warm-up (mrad) | <0.05 | |
| Beam height from base plate (mm) | 45 | |
| Operating temperature (°C) | 10~35 | |
| Power supply (90-264VAC) | PSU-H-LED/PSU-H-FDA/PSU-H-OEM/PSU-SR | |
| Modulation option | TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation option | |
| Expected lifetime (hours) | 10000 | |
| Warranty period | 1 year | |



| MBL-F-457 | PSU-H-LED | PSU-H-FDA | PSU-SR |
|--|--|--|--|
| <p>211(L)×88(W)×74(H) mm³, 1.6 kg</p> | <p>277 (L) ×145(W) ×106 (H) mm³, 2.6 kg</p> | <p>275(L) ×145(W) ×104(H) mm³, 2.3 kg</p> | <p>188(L) ×145(W) ×83(H) mm³, 2kg</p> |