



UV-FN series



LD PUMPED ALL-SOLID-STATE UV LASER

All solid state UV laser is made features of high output power stability, good beam profile, ultra compact, long lifetime, low cost and easy operating, which is widely used in collimation, laser medical treatment, scientific experiment, optical instrument, etc.



SPECIFICATIONS

| Wavelength (nm) | 261±1 | 273±1 | 303±1 | 320±1 | 335±1 | 349±1 | 355±1 | 360±1 |
|---|--|---------------------------------------|-------|-------------------|------------------------|-------------------|---------------------------------------|---------------------------------------|
| Operating mode | CW | | | | | | | |
| Output power (mW) | 1-10 | 1-5 | 1-30 | 1-30 | 1-60 | 1-150 | 1-30 | 1-100 |
| Power stability (rms, over 4 hours) | <10% | <10% | <10% | <3%, <2% | <5%, <3% | <5%, <3% | <5%, <3% | <3%, <2%, <1% |
| Transverse mode | Near TEM ₀₀ | | | TEM ₀₀ | Near TEM ₀₀ | TEM ₀₀ | Near TEM ₀₀ | TEM ₀₀ |
| M ² factor | / | | <2.0 | <2.0 | <2.0 | <1.5 | <1.5 | <2.0 |
| Beam diameter at the aperture (1/e ² , mm) | <2.0 | ~1.5 | <1.5 | <1.0 | <1.2 | <1.2 | <1.2 | <1.2 |
| Beam divergence, full angle (mrad) | <6.0 | | | <2.5 | <2.5 | <1.2 | <1.5 | <1.0 |
| Polarization Ratio | >50:1, Vertical (Horizontal Optional) | >50:1, Horizontal (Vertical Optional) | | | | | >50:1, Vertical (Horizontal Optional) | >50:1, Horizontal (Vertical Optional) |
| Warm-up time (minutes) | <10 | | | | | | | |
| Pointing stability after warm-up (mrad) | <0.05 | | | | | | | |
| Beam height from base plate (mm) | 27.4 | | | | | | | |
| Operating Temperature (°C) | 10-35 | | | | | | | |
| Modulation option | TTL on/off, 1Hz-1kHz, 1kHz-10kHz; and Analog modulation optional | | | | | | | |
| Power supply (90-264VAC) | PSU-H-FDA/PSU-SR | PSU-H-LED/PSU-H-FDA/PSU-SR | | | | PSU-H-FDA/PSU-SR | PSU-H-LED/PSU-H-FDA/PSU-SR | |
| Warranty | 1 year | | | | | | | |

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

| LASER HEAD(UV-FN-261/ 273) | LASER HEAD (UV-FN-303/ 335/ 349/ 355/ 360(≤50mW)) | LASER HEAD(UV-FN-320/ 360(50-100mW)) |
|---|--|---|
| <p style="text-align: center;">212(L)×70(W)×50(H) mm³, 1.5kg</p> | <p style="text-align: center;">197(L)×70(W)×50(H) mm³, 1.5 kg</p> | <p style="text-align: center;">207(L)×70(W)×50(H) mm³, 1.5kg</p> |

| POWER SUPPLY (PSU-H-LED) | POWER SUPPLY (PSU-H-FDA) | POWER SUPPLY (PSU-SR) |
|---|---|---|
| <p style="text-align: center;">273.6 (L) × 145(W) × 106 (H) mm³, 2.3 kg</p> | <p style="text-align: center;">276.6(L) × 145(W) × 103.6(H) mm³, 2.3 kg</p> | <p style="text-align: center;">188(L) × 145(W) × 83(H) mm³, 1.2kg</p> |