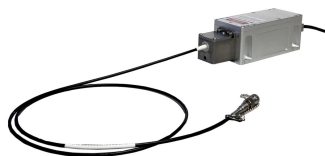




MIL-S-xxx-SM Series



SM FIBER OUTPUT LASER

CNI has a long experience in the delivery of fiber coupled laser light sources providing high efficiency and long term stability. All laser types can be offered with appropriate fiber coupling systems. This type is specifically designed for single-mode fiber(include PM) coupling with high power stability and long term stability.



SPECIFICATIONS

| | | |
|-------------------------------------|---|----------|
| Part number | MIL-S-1064-SM | |
| Wavelength (nm) | 1064±1 | |
| Operating mode | CW | |
| Output power (mW) | 1-500 | 500-1000 |
| Power stability (rms, over 4 hours) | <5%, <3%, <2% | |
| Transverse mode | TEM ₀₀ (single mode fiber output) | |
| M ² factor | <1.2 | |
| Fiber numerical aperture | 0.10~0.12 | |
| Fiber type | SM fiber (PM fiber optional) | |
| Fiber connector | FC/APC | |
| Fiber jacket | PVC (black) | |
| Polarization ratio | No polarization (>50:1 after PM fiber) | |
| Warm-up time (minutes) | <10 | |
| Operating temperature (°C) | 10~35 | |
| Power supply (90-264VAC or 5VDC) | PSU-III-LED/ PSU-III-FDA/ PSU-III-OEM-97 | PSU-SR |
| Modulation optional | TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |

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



| LASER HEAD | POWER SUPPLY (PSU-III-LED) | POWER SUPPLY (PSU-III-FDA) |
|--|---|--|
| <p>151 (L) × 50 (W) × 47 (H) mm³, 0.7kg</p> | <p>188(L) × 155(W) × 92 (H) mm³, 1.5kg</p> | <p>171 (L) × 130(W) × 62.2 (H) mm³, 1.2kg</p> |
| POWER SUPPLY (PSU-III-OEM-97) | POWER SUPPLY (PSU-SR) | |
| <p>94(L) × 75(W) × 49(H) mm³, 0.23kg</p> | <p>188(L) × 145(W) × 83(H) mm³, 1.2kg</p> | |