



OEM-U-457 / 1-400mW



DPSS LASER AT 457nm

All solid state laser at 457nm is made features of ultra compact, long lifetime, high stability and reliability, which is used in scientific experiment, medical measurement, instrument, spectrum analysis, etc.



SPECIFICATIONS

| | | |
|---|---|-----------------|
| Central wavelength (nm) | 457±1 | |
| Operating mode | CW | |
| Output power (mW) | >1, 5, 10, 20, ... , 150 | >150, ... , 400 |
| Power stability (rms, over 4 hours) | <1%, <2%, <3% | <2%, <3%, <5% |
| Transverse mode | TEM ₀₀ | |
| M ² factor | <1.5 | |
| Beam diameter at the aperture (1/e ² , mm) | 0.70±0.05 | |
| Beam divergence (mrad) | <1.5 | |
| Polarization Ratio | >100:1, Vertical±5 degree | |
| Warm-up time (minutes) | <10 | |
| Pointing stability after warm-up (mrad) | <0.05 | |
| Beam height from base plate (mm) | 27.4 | |
| Laser head consumption(W) | 15 (typical) , <25 (40°C) | |
| Max. Laser Head Base plate Temp (°C) | 50 | |
| Operating Temperature (°C) | 10-40 | |
| Driver (12VDC) | PSU-SR-DC12V PSU-SR | |
| Modulation option | 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.

| OEM-U-457 | PSU-SR-DC12V | PSU-SR |
|---|--|--|
| <p>142.5 (L)×60(W)×50(H) mm³, 1.0 kg</p> | <p>152(L)×114(W)×50(H) mm³, 0.5kg</p> | <p>188(L)×145(W)×83(H) mm³, 2kg</p> |

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