



**MSL-FP series**

**SINGLE LONGITUDINAL MODE RED LASER**

All solid state single longitudinal mode red laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.



**SPECIFICATIONS**

|   |                      |
|---|----------------------|
| Central wavelength (nm)                               | 639±1                |
| Operating mode  | CW                   |
| Output power (mW)                                     | 450-600              |
| Power stability (rms, over 4 hours)                   | <1%, <2%, <3%        |
| Transverse mode                                       | TEM <sub>00</sub>    |
| Longitudinal mode                                     | Single               |
| Spectral linewidth (nm)                               | <0.00004             |
| Coherent length (m)                                   | >10                  |
| Noise of amplitude (rms, 1Hz~20MHz)                   | <1%, typical<0.5%    |
| M <sup>2</sup> factor                                 | <1.2 (<1.1 Optional) |
| Beam diameter at the aperture (1/e <sup>2</sup> , mm) | <1.5                 |
| Beam divergence, full angle (mrad)                    | <1.5                 |
| Warm-up time (minutes)                                | <10                  |
| Beam height from base plate (mm)                      | 27.4                 |
| Cooled method (Water Cooled)                          | WCH-600              |
| Operating temperature (°C)                            | 15~35                |
| Power supply (90-264VAC)                              | PSU-H-FDA            |
| Expected lifetime (hours)                             | 10000                |
| Warranty  | 1 year               |

**Note: The laser head must be used on a water cooling system**

| LASER HEAD  | POWER SUPPLY   | Water Chiller (WCH-600)                             |
|---|--|---|
| <p>149(L)×70(W)×50(H) mm<sup>3</sup><br/>195(L)×107(W)×56.5(H) mm<sup>3</sup></p> | <p>275(L) ×145(W) ×104(H) mm<sup>3</sup>, 2.3 kg</p> | <p>269(L) ×350(W) ×322(H) mm<sup>3</sup>, 18 kg</p> |