

MBL-H-491/1~2mW

### LD PUMPED ALL-SOLID-STATE BLUE LASER





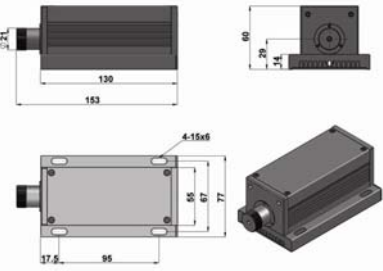
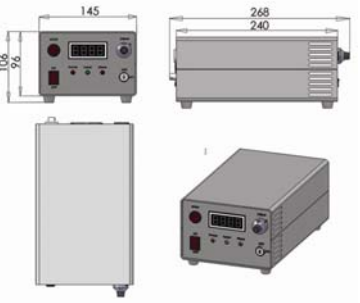
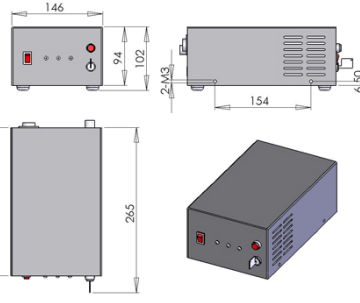
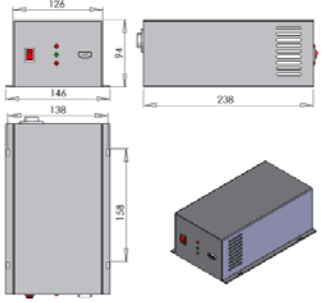
All solid state 491nm blue laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in fluorescence sensors, Raman spectrum, laser printing, holography, laser display, submarine communication, biomedicine, laser lighting show, etc.



#### SPECIFICATIONS

|   |                         |           |           |
|---|-------------------------|-----------|-----------|
| Wavelength (nm)                         | 491 ± 1                 |           |           |
| Output power (mW)                       | >1, 2                   |           |           |
| Transverse mode                         | Near TEM <sub>00</sub>  |           |           |
| Operating mode                          | CW                      |           |           |
| Power stability (rms, over 4 hours)     | <10%                    |           |           |
| Warm-up time (minutes)                  | <10                     |           |           |
| M <sup>2</sup> factor                   | <1.2                    |           |           |
| Beam divergence, full angle (mrad)      | <1.5                    |           |           |
| Beam diameter at the aperture (mm)      | ~3.0                    |           |           |
| Beam height from base plate (mm)        | 29                      |           |           |
| Polarization ratio                      | >100:1 (0 or 90 degree) |           |           |
| Noise of amplitude (rms, 1~20MHz)       | ~30%                    |           |           |
| Pointing stability after warm-up (mrad) | <0.05                   |           |           |
| Operating temperature (°C)              | 10~35                   |           |           |
| Power supply (90-264VAC or 5V DC)       | PSU-H-LED               | PSU-H-FDA | PSU-H-OEM |
| Expected lifetime (hours)               | 10000                   |           |           |
| Warranty period                         | 1 year                  |           |           |



| MxL-H-491  | PSU-H-LED  | PSU-H-FDA  | PSU-H-OEM   |
|--|--|--|---|
| <br>153(L)×77(W)×60(H) mm <sup>3</sup> , 0.9 kg | <br>268 (L)×145(W)×106 (H) mm <sup>3</sup> , 2.6 kg | <br>238 (L)×146(W)×102 (H) mm <sup>3</sup> , 2.3 kg | <br>238 (L)×146(W)×94 (H) mm <sup>3</sup> , 2.2 kg |
|   |    |   |    |