

MPL-III-656.5/1~2uJ/1-5mW

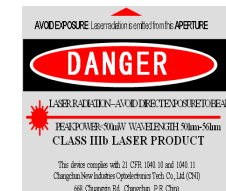
### LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER AT 656.5

All solid state Q-switched laser at 656.5 nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in medical, scientific research, industry and so on.



#### SPECIFICATIONS

|  |   |   |
|--|---|---|
| Wavelength (nm)                        | 656.5 ± 1   |   |
| Operating mode                         | Q-switched pulsed laser   |   |
| Single pulse energy (μJ)               | 1~2   |   |
| Pulse duration (ns)                    | ~15   |   |
| Peak power (W)                         | ~100  |   |
| Rep. rate (kHz)                        | Controllable  | Specified One rep. rate, such as 1k, 2kHz, with stable laser pulses emitting (stable pulse energy, peak, duration and period).<br>Different rep. rate in the range of 1Hz-2kHz can be obtained by input an external TTL signal. |
|  | Uncontrollable  | Undefined rep. rate among 2k-3kHz and unstable laser pulse emitting. Suitable for the applications only needing high peak power pulses.   |
| Average power (mW)                     | Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) |   |
| Ave power stability (over 4 hours)     | <1%, <3%, <5%   |   |
| Transverse mode                        | TEM <sub>00</sub>   |   |
| Warm-up time (minutes)                 | <10   |   |
| M <sup>2</sup> factor                  | <1.2  |   |
| Beam divergence, full angle (mrad)     | <1.5  |   |
| Beam diameter at 1/e <sup>2</sup> (mm) | ~1.2  |   |
| Beam height from base plate (mm)       | 24.8  |   |
| Operating temperature (°C)             | 10~35   |   |
| Power supply (90-264VAC)               | PSU-III-FDA   |   |
| Expected lifetime (hours)              | 10000   |   |
| Warranty period                        | 1 year  |   |



| MxL-III-656.5   | Dimensions | PSU-III-FDA  | Dimensions |
|---|------------|--|------------|
| <p>140.8(L) × 73(W) × 46.2(H) mm<sup>3</sup>, 0.6kg</p> |            | <p>133 (L) × 130(W) × 65 (H) mm<sup>3</sup>, 1.2kg</p> |            |