

MPL-III-660/1~2uJ/1-5mW



**LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER AT 660 nm**

All solid state Q-switched laser at 660 nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in medical, scientific research, industry, etc.



SPECIFICATIONS

|                                        |          |                                                                                                                    |
|----------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------|
| Central wavelength (nm)                |          | 660±1                                                                                                              |
| Operating mode                         |          | Q-switched pulsed laser                                                                                            |
| Single pulse energy (μJ)               |          | 1~2                                                                                                                |
| Pulse duration (ns)                    |          | ~15                                                                                                                |
| Peak power (W)                         |          | 70~130                                                                                                             |
| Rep. rate (kHz)                        | FIXED    | Setting up one fixed rep. rate internal between 1k-2kHz with stable pulse energy, pulse duration and pulse period. |
|                                        | EXT TRIG | 1Hz-2kHz by external trigger with stable pulse energy, pulse duration and pulse period.                            |
|                                        | QCW      | QCW state with one rep. rate between 2k-3kHz.                                                                      |
| 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-660                                                | PSU-III-FDA                                               |
|------------------------------------------------------------|-----------------------------------------------------------|
| <p>140.5 (L) × 73 (W) × 46.2 (H) mm<sup>3</sup>, 0.6kg</p> | <p>133 (L) × 130 (W) × 62.2 (H) mm<sup>3</sup>, 1.2kg</p> |

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