

Opto Engine LLC

Data sheet

Rev. 0912

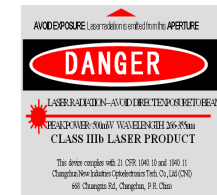
MPL-F-355/0.1~15uJ/1~150mW

SPECIFICATIONS

LD PUMPED ALL-SOLID-STATE UV LASER

All solid state 355nm UV laser is made features of ultra compact, long lifetime, low cost and easy operating, which is widely used in UV curing, micro-electronics, CD carving, laser medical treatment, scientific experiment, etc.

| | | |
|-----------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wavelength (nm) | | 355±1 |
| Output average power (mW) | | 1~150 |
| Transverse mode | | Near TEM ₀₀ |
| Operating mode | | Frequency conversion of Q-switched pulsed laser |
| Single pulse energy (μJ) | | 0.1~15 |
| Pulse duration (ns) | | ~7 |
| Peak power(kW) | | ~10 |
| Rep. rate (kHz) | Controllable | Fixed rep. rate, such as 1k, 2k, 3k, 4k, 5kHz, with stable laser pulses emitting (stable pulse energy, peak, duration and period). Different rep. rate in the range of 1kHz-5kHz can be obtained by input an external TTL signal. |
| | Uncontrollable | Undefined rep. rate among 5k-7kHz 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) | | <5%, <10% |
| Beam divergence, full angle (mrad) | | <1.5 |
| Beam diameter at the aperture (mm) | | ~2.0 |
| Polarization ratio | | >100:1 |
| Pointing stability after warm-up (mrad) | | <0.05 |
| Warm-up time(minutes) | | <10 |
| Beam height from base plate (mm) | | 45 |
| Operating temperature (°C) | | 10~35 |
| Residual infrared light | | <1% |
| Power supply (90-264VAC) | | PSU-H-FDA |
| Expected lifetime (hours) | | 10000 |
| Warranty period | | 1 year |
| Remarks | | Please Note: because of the Walk-off effect of Nonlinear crystals, the beam quality of UV laser is not as good as that of 1064/532nm laser. |



| MxL-F-355 | Dimensions | PSU-H-FDA | Dimensions |
|----------------------------------------------------|------------|--------------------------------------------------------|------------|
| <p>211.5(L)×88(W)×74(H) mm³, 1.6 kg</p> | | <p>238 (L) ×146(W) ×102 (H) mm³, 2.3 kg</p> | |