

# Blaze 500 Datasheet

| Specification          | Blaze-355-100                           | Blaze-532-200         | Blaze-1064-500        |
|------------------------|-----------------------------------------|-----------------------|-----------------------|
| CentralWavelength      | 355 ± 0.5nm                             | 532 ± 0.5nm           | 1064 ± 0.5nm          |
| OutputPower            | 100W @ 1MHz                             | 200W @ 1MHz           | 500W @ 5MHz           |
| RepetitionRate         | 1Hz - 2MHz                              |                       | 1Hz - 6MHz            |
| PulseEnergy            | 100μJ                                   | 200μJ                 | 100μJ                 |
| PowerStability         | < 2% (8 hours, RMS)                     | < 1.5% (8 hours, RMS) | < 1.0% (8 hours, RMS) |
| PulseDuration          | - 15ps                                  |                       | - 10ps                |
| BeamQuality            | TEM <sub>00</sub> , M <sup>2</sup> ≤1.3 |                       |                       |
| BeamRoundness          | > 90%                                   |                       |                       |
| BeamDiameter           | 3.5 ± 0.5mm                             | 2.0 ± 0.5mm           | 3.0 ± 0.5mm           |
| BurstPulseNumber       | 1                                       | 1 - 3                 | 1 - 10                |
| Dimensions             | 980 x 560 x 153mm                       |                       |                       |
| Trigger Mode           | PSO / POD / Gate mode, and TTL trigger  |                       |                       |
| External Power Control | 0 - 5V, linear control                  |                       |                       |
| Warm-up Time           | 15 min                                  |                       |                       |
| Power Supply           | AC100 - 240V / 50 - 60Hz                |                       |                       |
| Operating Humidity     | < 60% RH @ 25 °C                        |                       |                       |
| Operating Temperature  | 22 - 30 °C                              |                       |                       |
| Cooling Method         | Water circulation cooling               |                       |                       |