

# Surelite Series Specifications

| Surelite Model                  | SL I-10             | SL I-10 Seeded     | SL I-20             | SL I-20 Seeded     | SL I-30            | SL II-10             | SL II-10 Seeded     | SL II-20            | SL III-10            | SL III-10 Seeded     | SL EX                | SL EX Seeded         |
|---------------------------------|---------------------|--------------------|---------------------|--------------------|--------------------|----------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| Repetition Rate (Hz)            | 10                  | 10                 | 20                  | 20                 | 30                 | 10                   | 10                  | 20                  | 10                   | 10                   | 10                   | 10                   |
| Energy (mJ)                     |                     |                    |                     |                    |                    |                      |                     |                     |                      |                      |                      |                      |
| 1064 nm                         | 450                 | 360                | 420                 | 335                | 380                | 650                  | 520                 | 550                 | 850                  | 675                  | 700                  | 625                  |
| 532 <sup>1</sup> nm             | 200                 | 160                | 160                 | 125                | 130                | 300                  | 240                 | 250                 | 425                  | 340                  | 375                  | 300                  |
| 355 nm                          | 65/100 <sup>2</sup> | 50/80 <sup>2</sup> | 60/100 <sup>2</sup> | 48/80 <sup>2</sup> | 25/70 <sup>2</sup> | 100/160 <sup>2</sup> | 80/125 <sup>2</sup> | 70/120 <sup>2</sup> | 165/225 <sup>2</sup> | 130/180 <sup>2</sup> | 125/220 <sup>2</sup> | 120/180 <sup>2</sup> |
| 266 nm                          | 60                  | 48                 | 45                  | 35                 | 30                 | 80                   | 65                  | 60                  | 100                  | 80                   | 90                   | 70                   |
| Pulsewidth <sup>3</sup> (nsec)  |                     |                    |                     |                    |                    |                      |                     |                     |                      |                      |                      |                      |
| 1064 nm                         | 5-7                 | 5-7                | 5-7                 | 5-7                | 5-7                | 5-7                  | 5-7                 | 5-7                 | 4-6                  | 4-6                  | 4-6                  | 4-6                  |
| 532 nm                          | 4-6                 | 4-6                | 4-6                 | 4-6                | 4-6                | 4-6                  | 4-6                 | 4-6                 | 3-5                  | 3-5                  | 3-5                  | 3-5                  |
| 355 nm                          | 4-6                 | 4-6                | 4-6                 | 4-6                | 4-6                | 4-6                  | 4-6                 | 4-6                 | 3-5                  | 3-5                  | 3-5                  | 3-5                  |
| 266 nm                          | 4-6                 | 4-6                | 4-6                 | 4-6                | 4-6                | 4-6                  | 4-6                 | 4-6                 | 3-5                  | 3-5                  | 3-5                  | 3-5                  |
| Linewidth (cm <sup>-1</sup> )   | 1                   | 0.005              | 1                   | 0.005              | 1                  | 1                    | 0.005               | 1                   | 1                    | 0.005                | 1                    | 0.005                |
| Divergence <sup>4</sup> (mrad)  | 0.5                 | 0.5                | 0.5                 | 0.5                | 0.5                | 0.5                  | 0.5                 | 0.5                 | 0.5                  | 0.5                  | 0.5                  | 0.5                  |
| Beam Pointing Stability (±μrad) | 30                  | 30                 | 50                  | 50                 | 70                 | 30                   | 30                  | 50                  | 50                   | 50                   | 50                   | 50                   |
| Beam Diameter                   | 6                   | 6                  | 6                   | 6                  | 6                  | 7                    | 7                   | 7                   | 9.5                  | 9.5                  | 9.5                  | 9.5                  |

Notes:

- Using Type II doubler
- High energy UV option with Type I doubler
- FWHM full width half max
- Full angle for 86% (1/e<sup>2</sup>)