



**AO-S-xxx-FL series**

**LD PUMPED ALL-SOLID-STATE ACTIVELY LASER**

All solid state actively laser has the features of high single pulse energy, short pulse duration, and high peak power, which is widely used in laser distance measuring, laser Radar, laser Raman, ICP-MS, LIBS, scientific research and so on.



**SPECIFICATIONS**

|   |   |
|---|---|
| Wavelength (nm)                                     | 349±1   |
| Operating mode                                      | Actively  |
| Average power (mW) <sup>1</sup>                     | 1-100   |
| Single pulse energy (μJ) <sup>2</sup>               | 1-60(60μJ@1kHz; 50μJ@2kHz; 30μJ@3kHz; 15μJ@4kHz; 10μJ@5kHz) |
| Pulse duration (ns) <sup>3</sup>                    | ~5@1kHz; ~6@2kHz; ~7@3kHz; ~8@4kHz; ~10@5kHz                |
| Peak power (kW)                                     | 0.1-12  |
| Rep. rate <sup>4</sup>                              | 1Hz-5kHz  |
| Power stability (rms, 4 hours ±3°C)                 | <3%, <2%, <1%   |
| Transverse mode                                     | TEM <sub>00</sub>   |
| M <sup>2</sup>                                      | <1.2  |
| Beam diameter at the aperture 1/e <sup>2</sup> (mm) | ~0.5  |
| Beam divergence, full angle (mrad)                  | <2  |
| Polarization ratio                                  | >100:1, Vertical (Horizontal optional)                      |
| Warm-up time (minutes)                              | <10   |
| Beam height from base plate (mm)                    | 72.5  |
| Operating temperature (°C)                          | 10-35   |
| Power supply (12VDC)                                | 12V/21A   |
| Expected lifetime (hours)                           | >10000  |

| LASER HEAD (DRIVER Integrated) <sup>5</sup>  | POWER SUPPLY (100-240VAC) optional   |
|--|--|
| <p style="text-align: center;">211 (L) × 135 (W) × 150 (H) mm<sup>3</sup>, 4.0kg</p> | <p style="text-align: center;">220 (L) × 95 (W) × 46 (H) mm<sup>3</sup>, 1.3kg</p> |

- 1 Average power (mW)= Single pulse energy (μJ)\* Rep. rate(kHz)
- 2 Any energy level can be selected within this range.
- 3 Pulse width not tunable, the value varies with different frequency and energy.
- 4 Frequency is adjustable within this range.
- 5 Output energy adjustable 10-100%; RS232 control optional.