

AO-266A/100-200mW/ 4-7uJ



## LD PUMPED ALL-SOLID-STATE ACOUSTO-OPTIC Q-SWITCHED LASER

All solid state AOM Q-switched laser at 266 nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in laser radar, scientific research, precision research and so on.

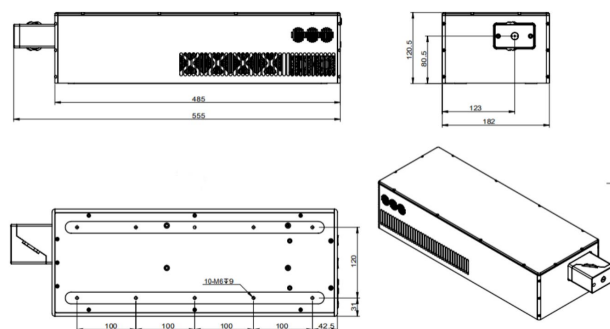


### SPECIFICATIONS

|                                                       |                                                                |              |
|-------------------------------------------------------|----------------------------------------------------------------|--------------|
| Wavelength (nm)                                       | 266±1                                                          |              |
| Operating mode                                        | Actively                                                       |              |
| Average power (mW)                                    | 100@30kHz                                                      | 200@30kHz    |
|                                                       | Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz) |              |
| Single pulse energy (μJ)                              | ~4@30kHz                                                       | ~7@30kHz     |
| Rep. rate <sup>1</sup>                                | 20-100kHz                                                      | 20kHz-200kHz |
| Pulse duration (ns) <sup>2</sup>                      | ~10@30kHz                                                      |              |
| Peak power (kW)                                       | ~0.4@30kHz                                                     | ~1@30kHz     |
| Power stability (rms, 4 hours ± 3°C)                  | <2%, <1%                                                       |              |
| Transverse mode                                       | TEM <sub>00</sub>                                              |              |
| Beam divergence, full angle (mrad)                    | <3.5                                                           |              |
| Beam diameter at the aperture (1/e <sup>2</sup> , mm) | ~1                                                             |              |
| M <sup>2</sup>                                        | <1.2                                                           |              |
| Polarization ratio                                    | >100:1 Horizontal                                              |              |
| Beam height from base plate (mm)                      | 80.5                                                           |              |
| Warm-up time (minutes)                                | <10                                                            |              |
| Cooled method                                         | Air cooled                                                     |              |
| Operating temperature (°C)                            | 10-35                                                          |              |
| Operating voltage (VDC)                               | 12V/25A                                                        |              |
| Expected lifetime (hours)                             | >10000                                                         |              |

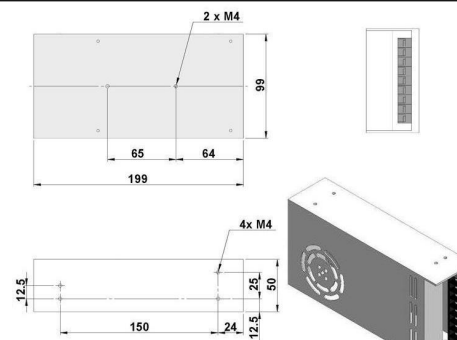


### LASER HEAD (Driver Integrated)



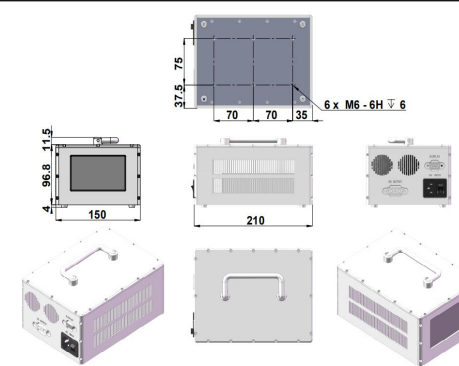
555 (L) × 182 (W) × 120.5 (H) mm<sup>3</sup>, 10 kg

### POWER SUPPLY PSU-12 (100-240VAC) optional



199 (L) × 99 (W) × 50 (H) mm<sup>3</sup>, 0.9 kg

### POWER SUPPLY PSU-12-P<sup>3</sup> (100-240VAC) optional



210 (L) × 150 (W) × 112.3 (H) mm<sup>3</sup>, 2.75 kg

1 Other rep.rate range available on request.

2 Pulse width not tunable, the value varies with different frequency.

3 Parameters can be adjusted.(on/off, Rep. Rate, etc.)

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