

FS-G-515A/1-20W

## FEMTOSECOND PULSED

### LASER AT 515nm

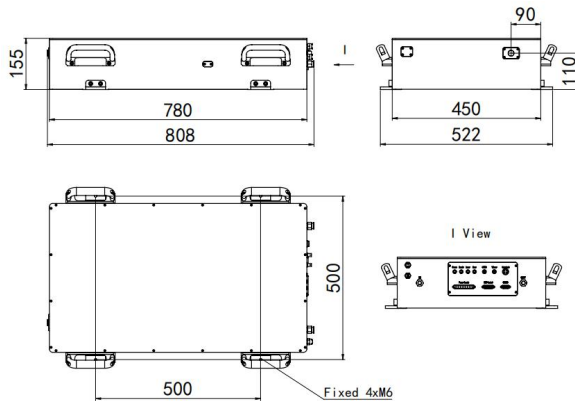
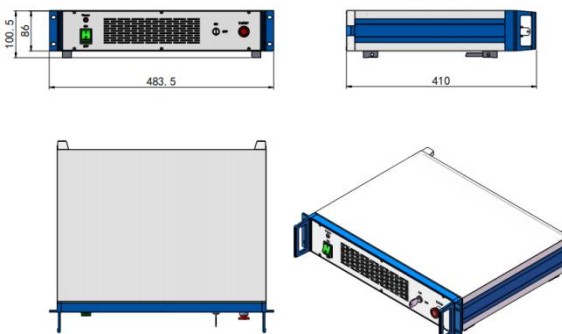
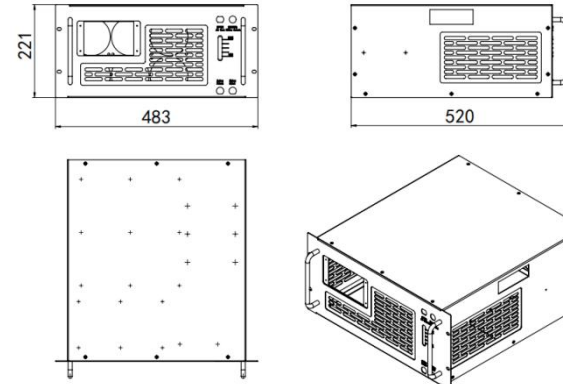
Femtosecond pulsed laser at 515nm is made features of short pulse duration, high repetition rate, high stability and good beam quality, which is used in sapphire marking, ceramic cutting, semiconductor cutting, film scribing, physics experiment, etc.



#### SPECIFICATIONS

|                                                      |                      |
|------------------------------------------------------|----------------------|
| Wavelength (nm)                                      | 515±5                |
| Average power (W) <sup>1</sup>                       | 1-20 (20W@200kHz)    |
| Single pulse energy (μJ)                             | 1-200 (200μJ @50kHz) |
| Rep. rate (kHz)                                      | 50-1000              |
| Pulse duration (fs)                                  | <500                 |
| Peak power (MW)                                      | 1-250                |
| Ave power stability (rms, 4 hours±3°C)               | <2%, <1%             |
| Warm-up time (minutes)                               | <10                  |
| Transverse mode                                      | TEM <sub>00</sub>    |
| M <sup>2</sup>                                       | <1.3                 |
| Beam divergence, full angle (mrad)                   | <1.0                 |
| Beam diameter at the aperture (1/e <sup>2</sup> ,mm) | <3                   |
| Polarization ratio                                   | >100:1 Horizontal    |
| Beam height from base plate (mm)                     | 110                  |
| Cooled method                                        | Water cooled         |
| Operating temperature (°C)                           | 15-35                |
| Power supply (100-240VAC)                            | RADIPS               |
| Expected lifetime (hours)                            | >10000               |



| LASER HEAD                                                                                                                      | POWER SUPPLY                                                                                                                           | WATER CHILLER                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
|  <p>808 (L) x 522 (W) x 155 (H) mm³, 85kg</p> |  <p>410 (L) x 483.5 (W) x 110.5 (H) mm³, 4.5 kg</p> |  <p>520 (L) x 483 (W) x 221 (H) mm³, 22kg</p> |

1. Integrated AOM for fine power control and fast power modulation.