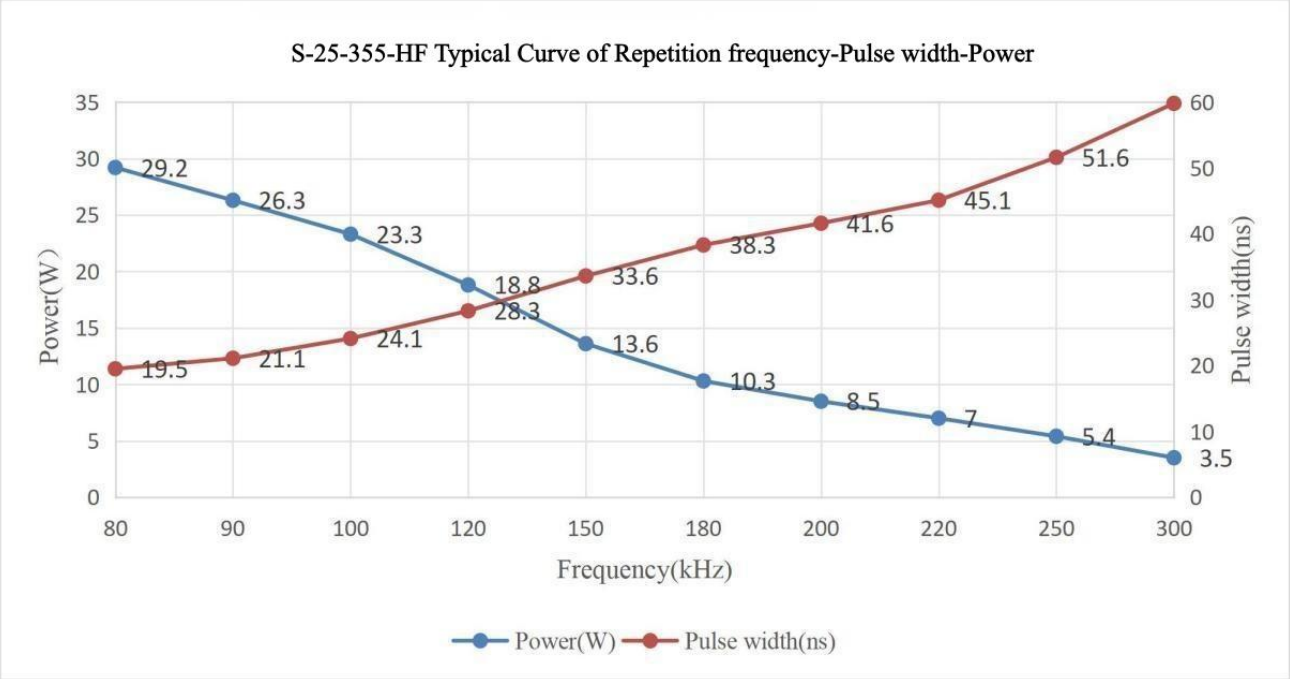
# 1. Optical characteristics

| No. | Characteristics | Parameter value | Unit |
|---|---|---|---|
| 1 | Central wavelength | 355 | nm |
| 2 | Maximum pulse energy | >312.5@80kHz | μJ |
| 3 | Output power | >25@80kHz | W |
| 4 | Frequency adjustment range | 80-300 | kHz |
| 5 | Pulse width | <30@80kHz | ns |
| 6 | Output power instability | <3% | RMS |
| 7 | Beam quality $M^2$ | <1.3 | / |
| 8 | Spot roundness | >90% | / |
| 9 | Polarization direction | horizontal | / |
| 10 | 1/e² beam diameter(Bare beam) | 0.7±0.1 | mm |
| 11 | 1/e ² beam diameter (10X) | 5.6±1 | mm |
| 12 | Visual beam diameter (10X) | 8.4±1.5 | mm |
| 13 | Bare beam divergence angle | <2 | mrad |
| 14 | Warm-up time | <10 | min |




## 2. Electrical characteristics

| No. | Characteristics | Parameter value | Unit |
|---|---|---|---|
| 1 | Power supply voltage | 48 | VDC |
| 2 | Working current | < 12 | A |
| 3 | Power consumption | < 576 | W |
| 4 | Recommended power supply | ≥ 800 | W |

## 3. Environmental requirements

| No. | Characteristics | Parameter value | Unit |
|---|---|---|---|
| 1 | Ambient temperature | 15 ~ 35 | ℃ |
| 2 | Storage temperature | -10 ~ 50 | ℃ |
| 3 | Ambient relative humidity | < 90 % | / |

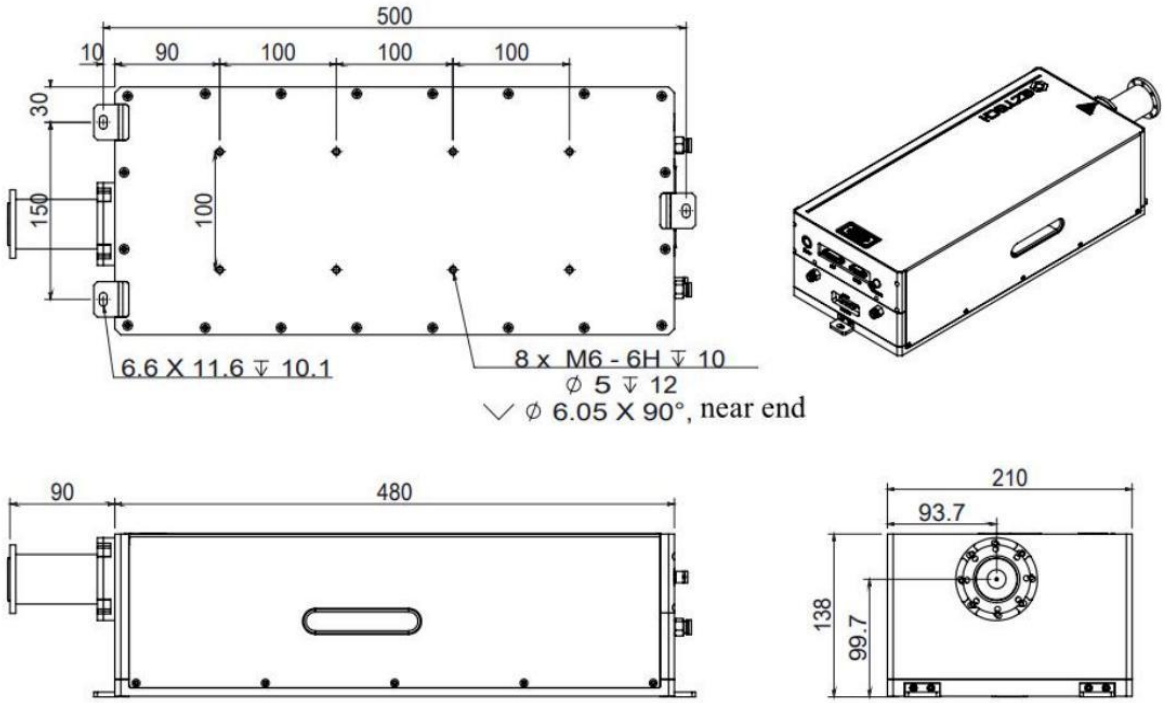
## 4. Water cooler requirements

| No. | Characteristics | Parameter value | Unit |
|---|---|---|---|
| 1 | Cooling capacity | > 1000 | W |
| 2 | Water flow rate | > 6 | L/min |
| 3 | Water tank temperature control | 25 ± 0.3 | ℃ |
| 4 | Water pipe diameter | 10 | mm |

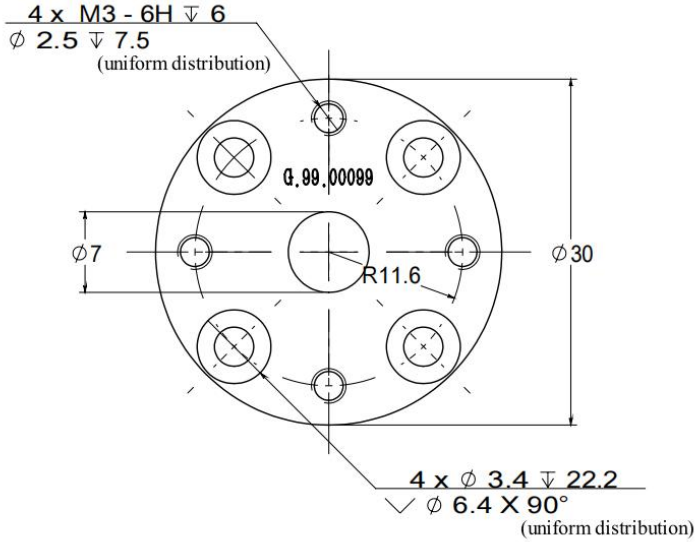
## 5. Structural characteristics

| No. | Characteristics | Parameter value | Unit |
|---|---|---|---|
| 1 | Laser dimension (without feet and galvanometer adapter) | 480*210*138 | $mm^3$ |
| 2 | Net weight | 20.5±0.3 | kg |

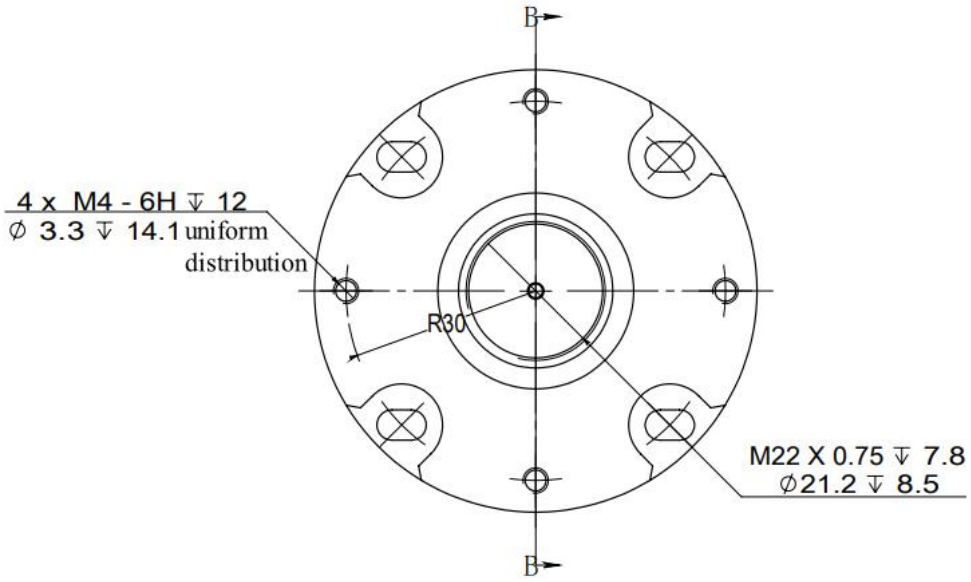
## 6. Dimension



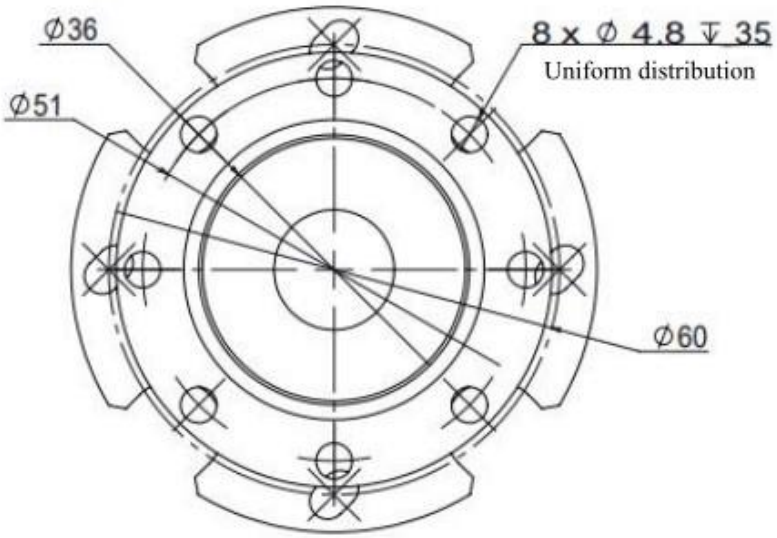

## 6. Flange beam expander mounting hole size reference (M3 threaded hole), standard configuration for this model



## 7. Threaded beam expander mounting hole size reference (M22 threaded hole)




## 8. Galvanometer connection tube



## 9. Galvanometer adapter

