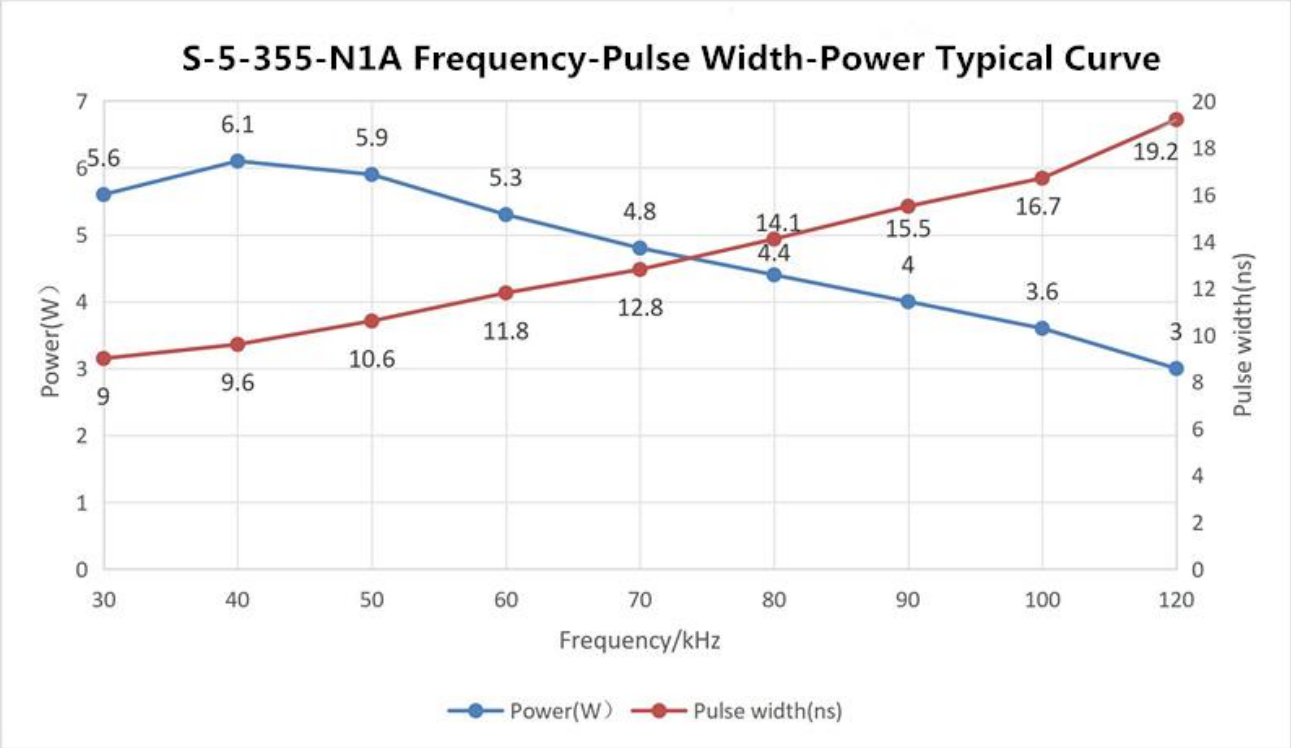
## 1. Optical characteristics

| No. | Characteristics | Parameter value | Unit |
|---|---|---|---|
| 1 | Central wavelength | 355 | nm |
| 2 | Maximum pulse energy | > 125@40kHz | μJ |
| 3 | Output Power | >5@40kHz | W |
| 4 | Frequency tunable range | 30-200 | kHz |
| 5 | Pulse Width | < 15@40kHz | ns |
| 6 | Output power instability | < 3% | RMS |
| 7 | Beam quality $M^2$ | < 1.3 | / |
| 8 | Spot roundness | >90% | / |
| 9 | Polarization direction | Level | / |
| 10 | $1/e^2$ beam diameter (bare light) | 0.5±0.1 | mm |
| 11 | $1/e^2$ beam diameter (10X) | 5±1 | mm |
| 12 | Visual beam diameter (10X) | 7.5±1.5 | mm |
| 13 | Bare light divergence angle | <2 | mrad |
| 14 | Warm-up time | <15 | min |


S-5-355-N1A Frequency-Pulse Width-Power Typical Curve
Power(W)
Pulse width(ns)
Frequency/kHz
30
40
50
60
70
80
90
100
120
5.6
6.1
5.9
5.3
4.8
4.4
4
3.6
3
9
9.6
10.6
11.8
12.8
14.1
15.5
16.7
19.2
Power(W)
Pulse width(ns)

## 2. Electrical characteristics

| No. | Characteristics | Parameter value | Unit |
|---|---|---|---|
| 15 | Power supply voltage | 24 | VDC |
| 16 | Working current | < 6 | A |
| 17 | Power consumption | < 150 | W |
| 18 | Recommended power | ≥200 | W |

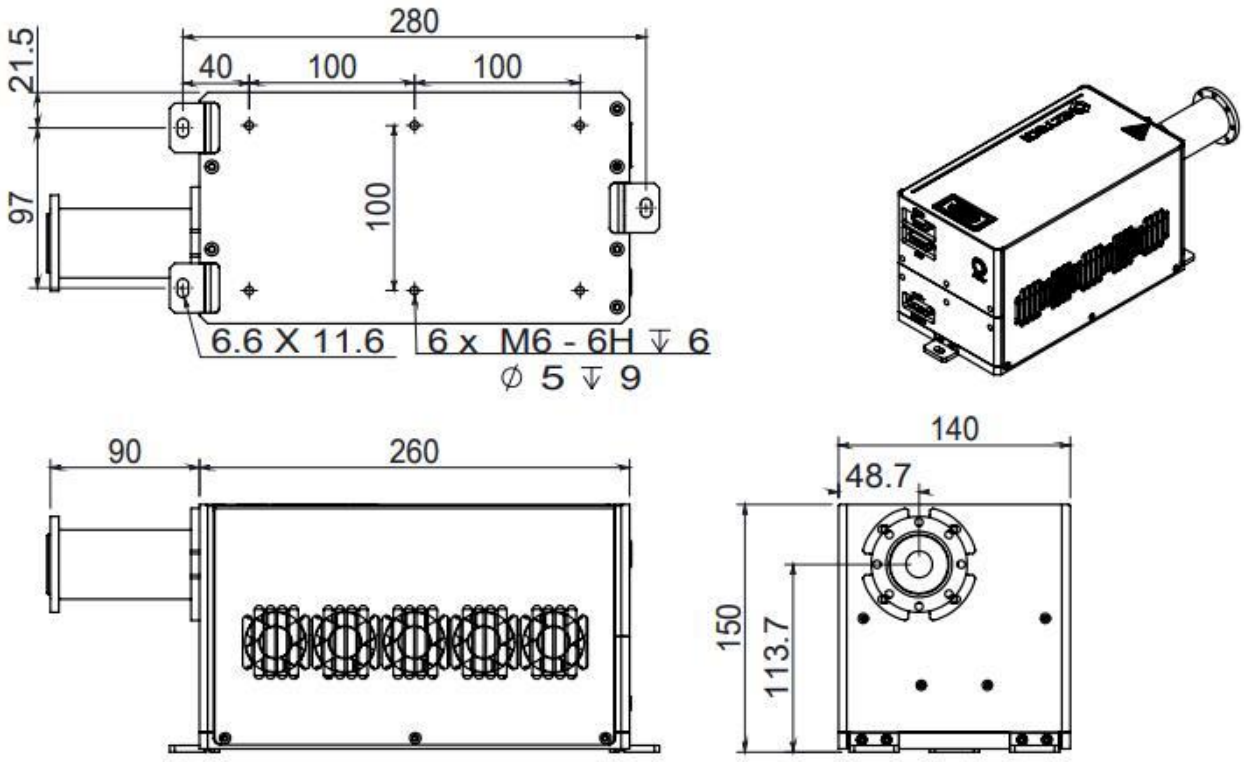
## 3. Environmental requirements

| No. | Characteristics | Parameter value | Unit |
|---|---|---|---|
| 19 | Ambient temperature | 5 - 35 | ℃ |
| 20 | Storage temperature | - 10 - 50 | ℃ |
| 21 | Ambient relative humidity | < 90% | / |

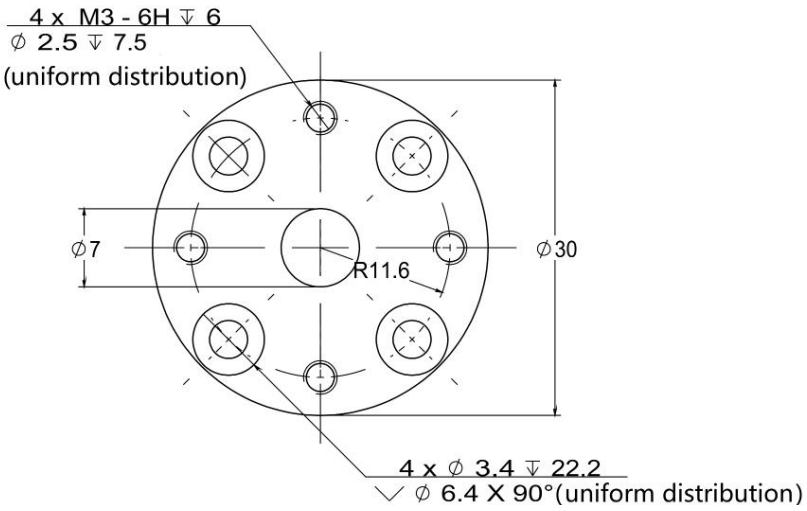
## 4. Structural characteristics

| No. | Characteristics | Parameter value | Unit |
|---|---|---|---|
| 22 | Laser dimension (without feet and galvanometer adapter) | 260*140*150 | mm |
| 23 | Net weight | ≤8 | kg |

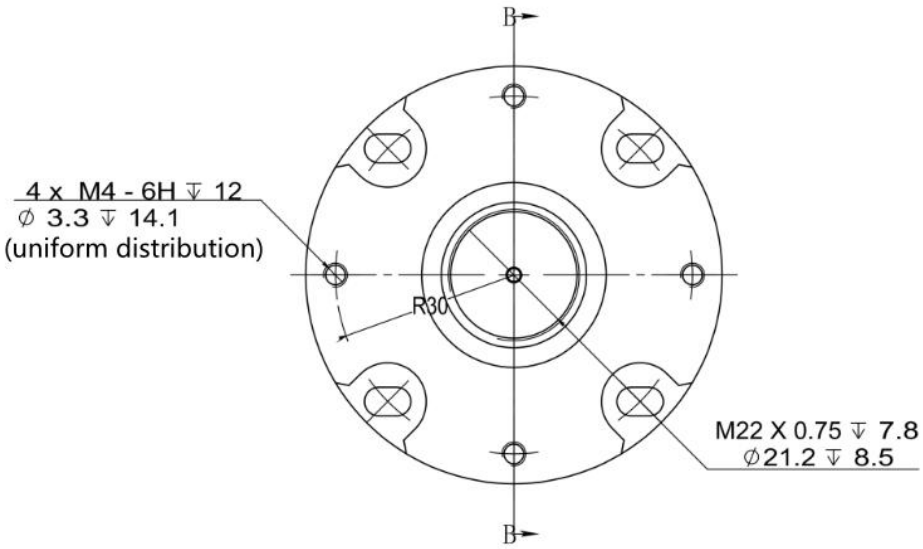
## 5. Dimension


280
21.5
40
100
100
97
100
6.6 X 11.6
6 x M6 - 6H ↧ 6
⌀ 5 ↧ 9
90
260
140
48.7
150
113.7

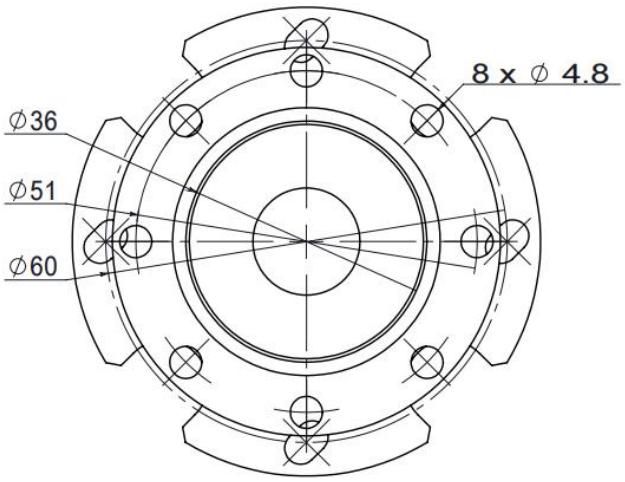
## 6. Flange beam expander mounting hole size(M3 threaded hole), standard




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



## 8.Galvanometer connection tube




## 9. Galvanometer adapter

