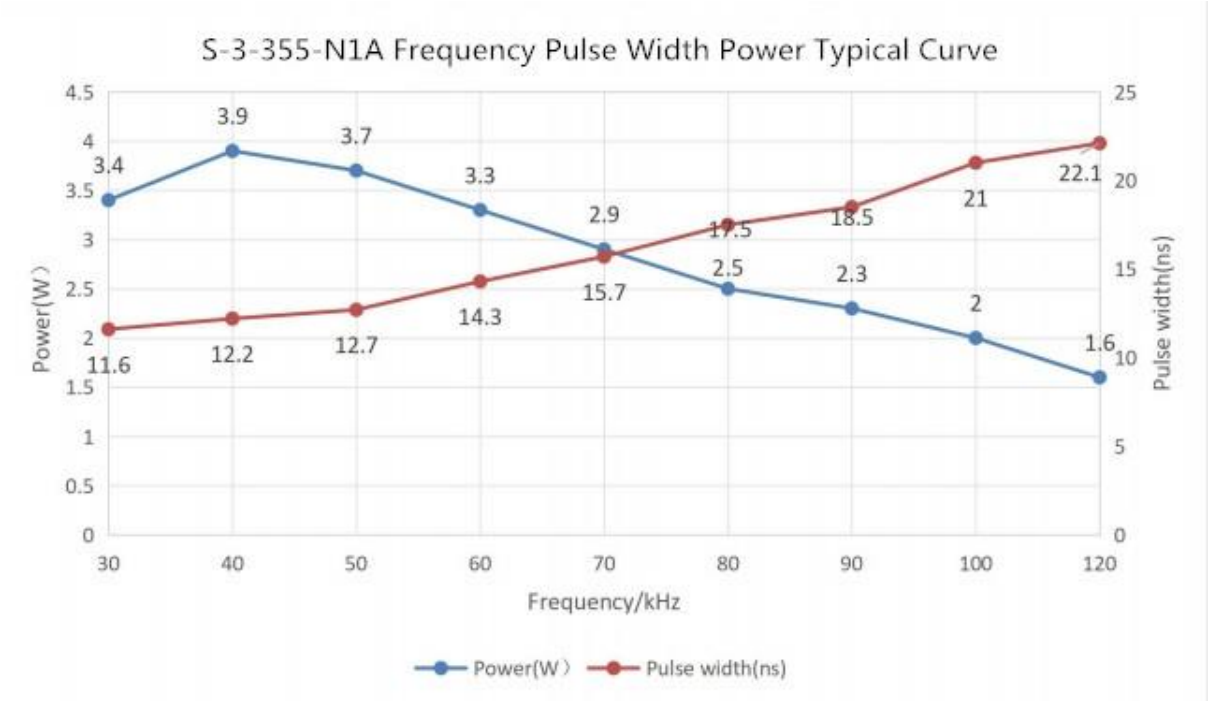
1. Optical characteristics

No.	Characteristics	Parameter value	Unit
1	Central wavelength	355	nm
2	Maximum pulse energy	>75@40kHz	μJ
3	Output Power	>3@40kHz	W
4	Frequency tuning 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 (10×)	5±1	mm
12	Visual beam diameter (10×)	7.5±1.5	mm
13	Divergence angle	<2	mrad
14	Warm-up time	<15	min


S-3-355-N1A Frequency Pulse Width Power Typical Curve
Power(W)
Pulse width(ns)
Frequency/kHz
30
40
50
60
70
80
90
100
120
3.4
3.9
3.7
3.3
2.9
2.5
2.3
2
1.6
11.6
12.2
12.7
14.3
15.7
17.5
18.5
21
22.1
Power(W)
Pulse width(ns)

2. Electrical characteristics

No.	Characteristics	Parameter value	Unit
15	Power supply voltage	24	VDC
16	Working current	< 5	A
17	Power consumption	< 120	W
18	Recommended power	≥200	W

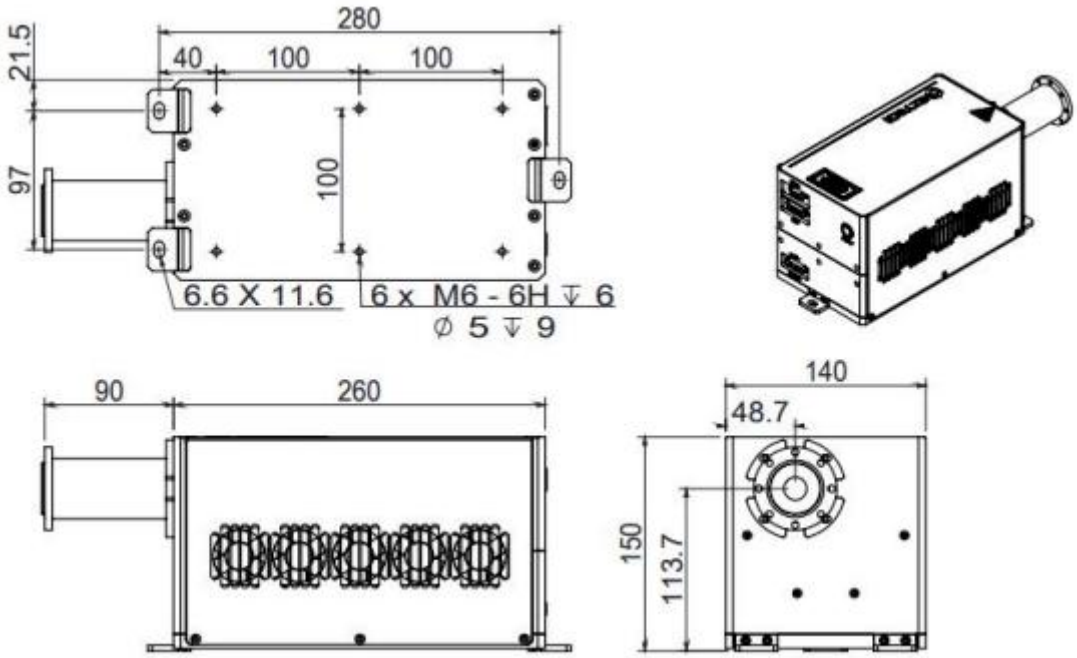
3. Environmental requirements

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

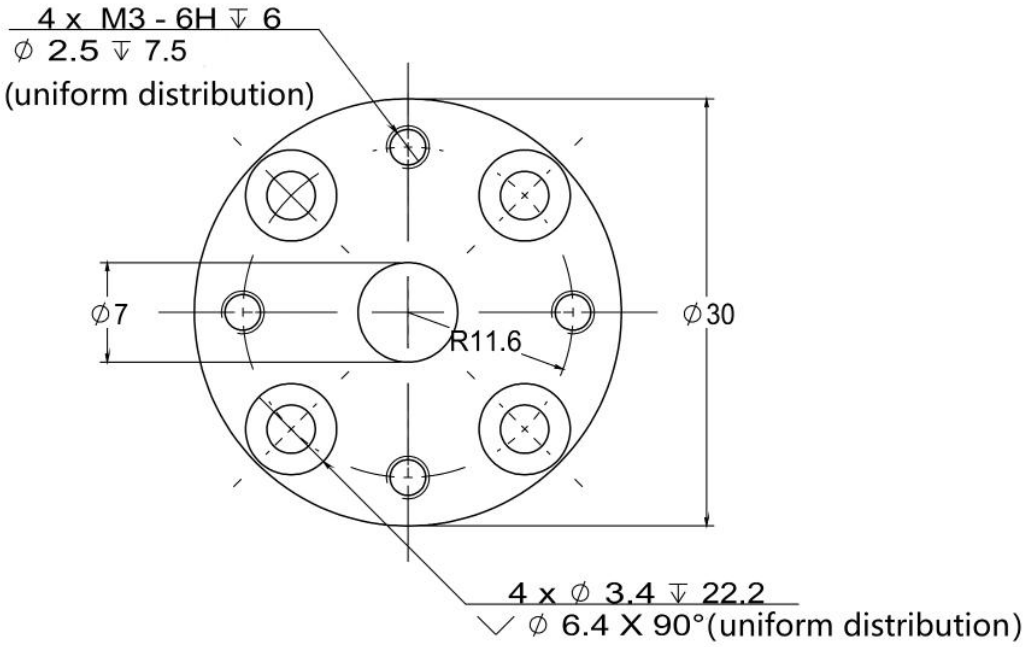
4. Structural characteristics

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

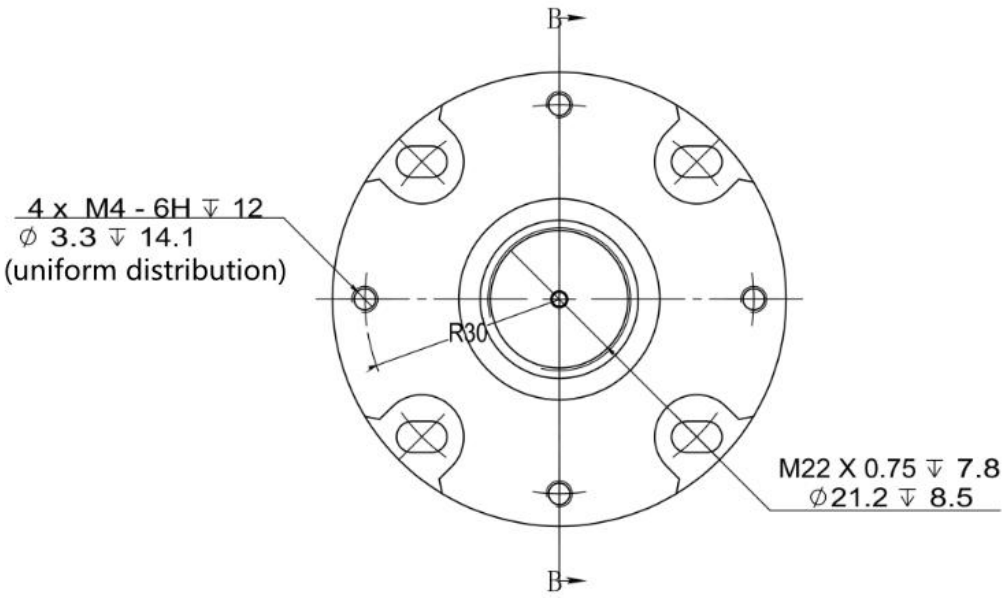
5. Dimension


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

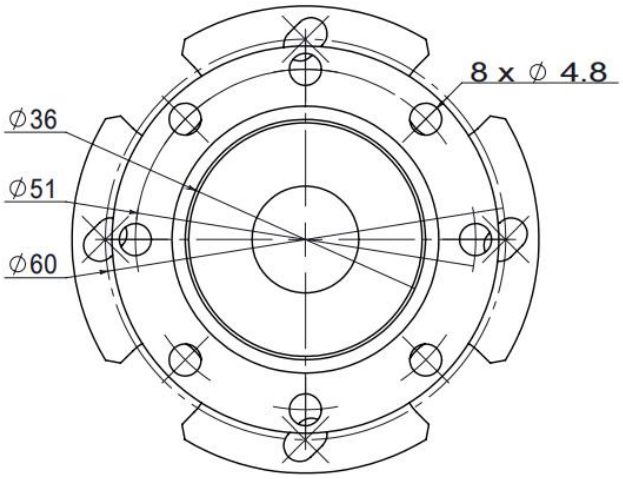
6. Flange beam expander mounting hole size (M3 threaded hole), standard



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



8. Galvanometer connection tube



9. Galvanometer adapter

