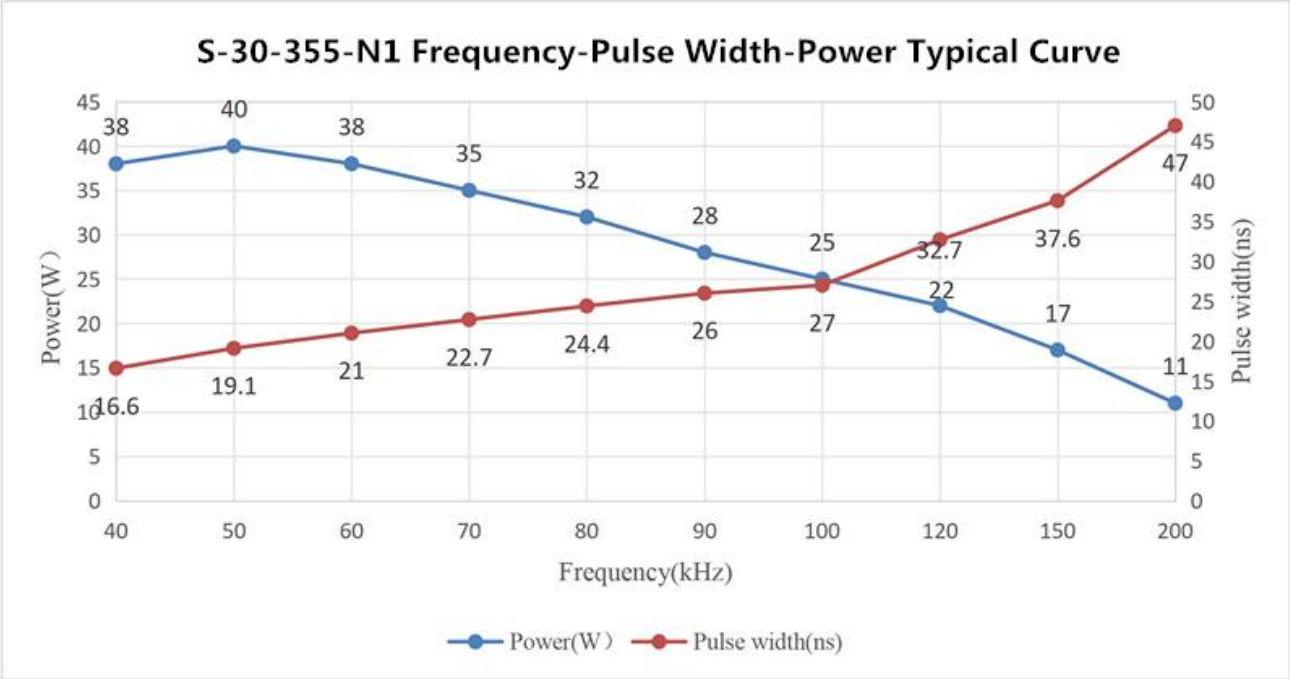
1. Optical characteristics

No.	Characteristics	Parameter value	Unit
1	Central wavelength	355	nm
2	Maximum pulse energy	>600@50kHz	μJ
3	Output Power	>30@50kHz	W
4	Frequency tunable range	40-200	kHz
5	Pulse Width	< 25@50kHz	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)	0.7±0.1	mm
11	$1/e^2$ beam diameter (8×)	5.6±1	mm
12	Visual beam diameter (8×)	8.4±1.5	mm
13	Bare light divergence angle	<2	mrad
14	Warm-up time	<10	min



2. Electrical characteristics

No.	Characteristics	Parameter value	Unit
15	Power supply voltage	48	VDC
16	Working current	< 12	A
17	Power consumption	< 576	W
18	Recommended power	⩾800	W

3. Environmental requirements

No.	Characteristics	Parameter value	Unit
19	Ambient temperature	15 - 35	℃
20	Storage temperature	- 10 - 50	℃
21	Ambient relative humidity	< 90%	/

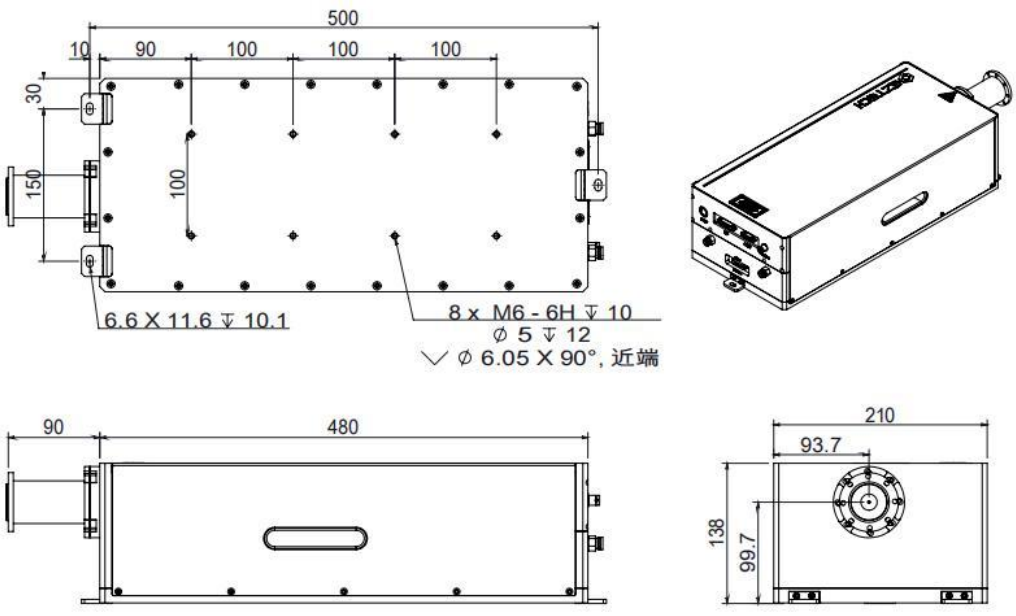
4. Water cooler requirements

No.	Characteristics	Parameter value	Unit
22	Cooling capacity	> 1000	W
23	Water flow	> 6	L/min
24	Water tank temperature control	25±0.3	℃

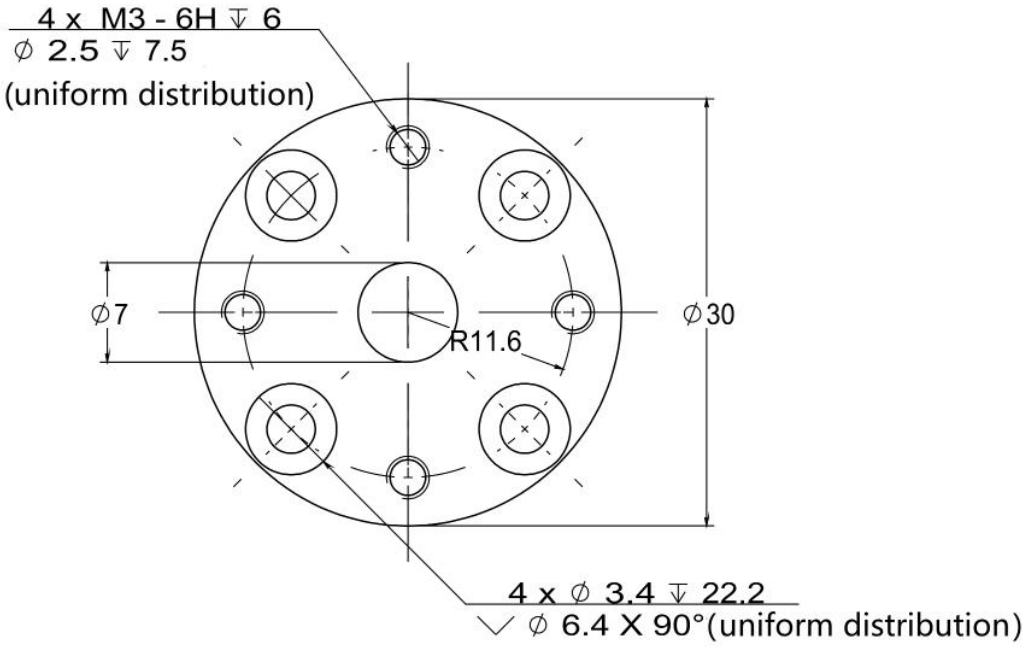
5. Structural characteristics

No.	Characteristics	Parameter value	Unit
22	Laser dimension (without feet and galvanometer adapter)	480*210*138	mm
23	Net weight	≤20.5	kg

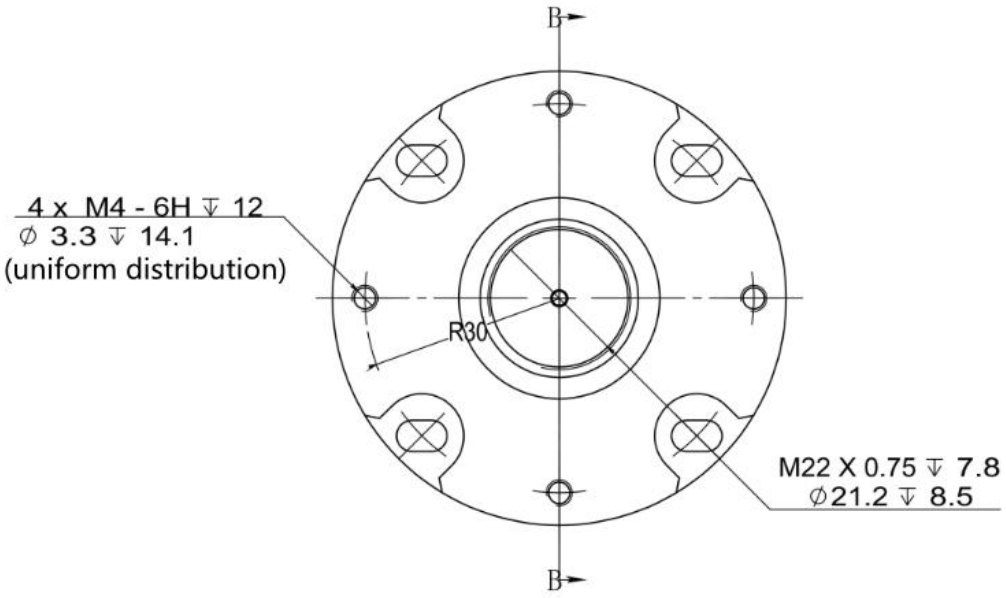
6. Dimension



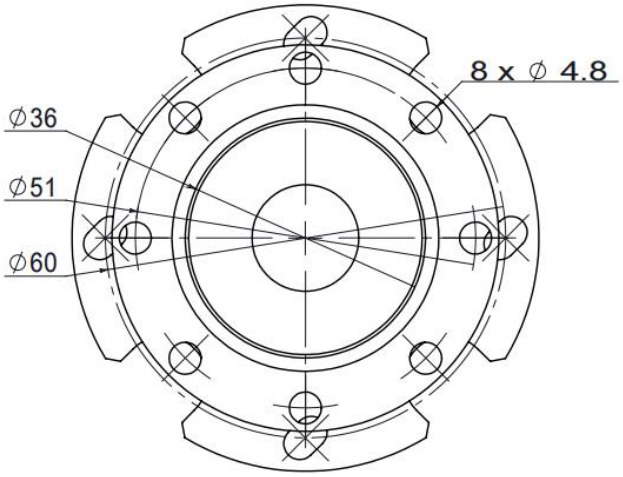
7. Flange beam expander mounting hole size (M3 through hole), standard for the laser



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



9. Galvanometer connection tube



10. Galvanometer adapter

