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	Pulsed solid-state laser	Date:	202503
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1. Optical characteristics

N	Characteristics	Parameter value	Unit
1	Central wavelength	355	nm
2	Maximum pulse energy	>600@50kHz	μJ
3	Output power	>30@50kHz	W
4	Frequency adjustment 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	horizontal	/
10	1/e ² beam diameter (Bare beam)	0.7 ± 0.1	mm
11	1/e ² beam diameter (8X)	5.6 ± 1	mm
12	Visual beam diameter (8X)	8.4 ± 1.5	mm
13	Bare beam divergence angle	< 2	mrad
14	Warm-up time	< 10	min

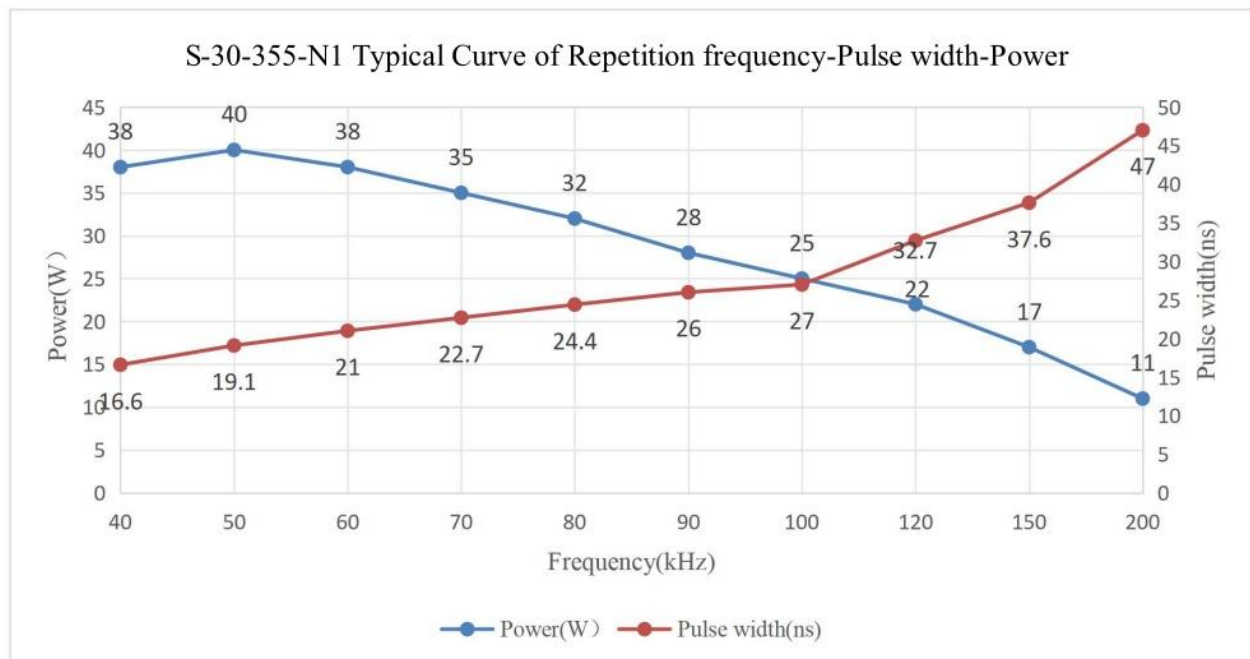




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2. Electrical characteristics

N	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



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3. Environmental requirements

N	Characteristics	Parameter value	Unit
1	Ambient temperature	15 ~ 35	°C
2	Storage temperature	-10 ~ 50	°C
3	Ambient relative humidity	< 90 %	/

4. Water cooler requirements

N	Characteristics	Parameter value	Unit
1	Cooling capacity	> 1000	W
2	Water flow	> 6	L/min
3	Water tank temperature control	25 ± 0.3	°C
4	Water pipe diameter	10	mm

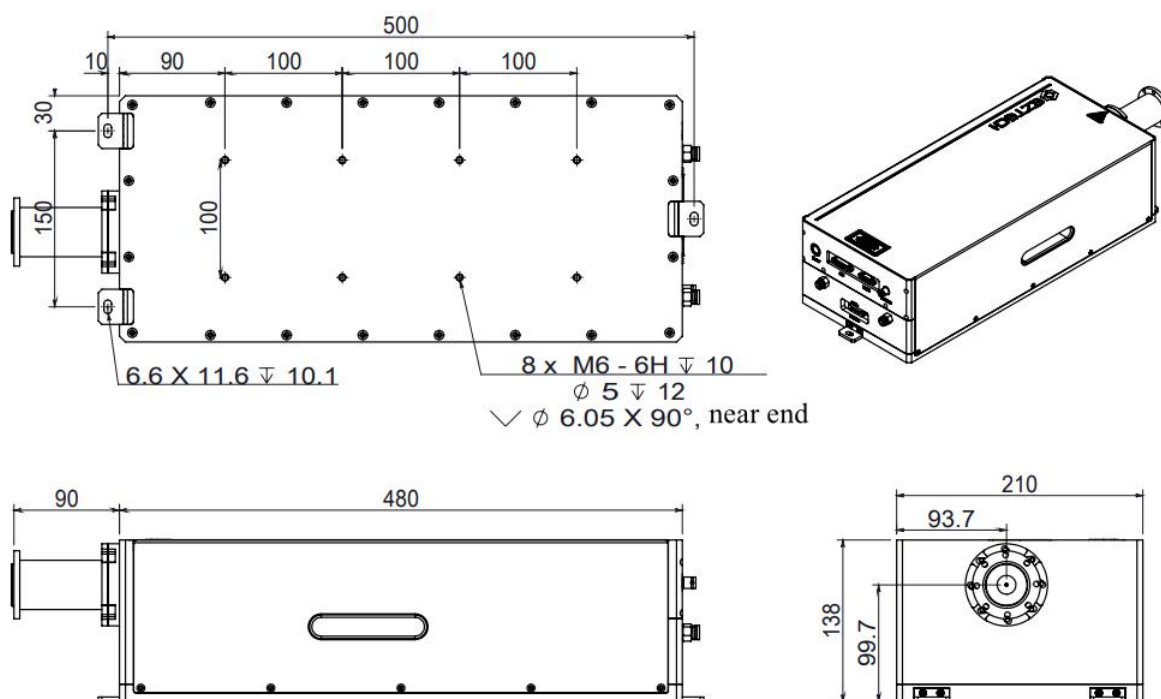


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5. Structural characteristics

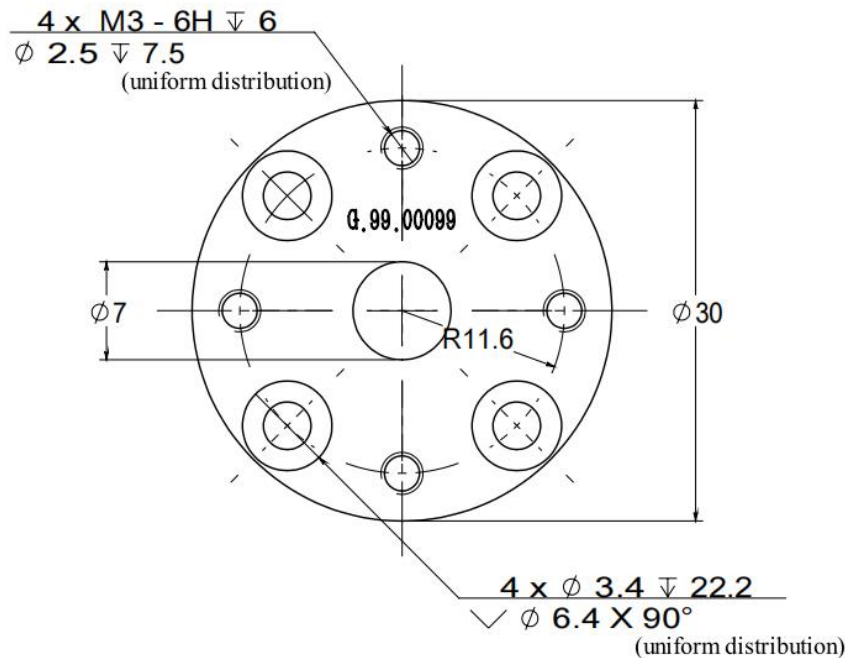
N	Characteristics	Parameter value	Unit
1	Laser dimension (without feet and galvanometer adapter)	480*210*138	mm ³
2	Net weight	20.5 ± 0.3	kg

6. Dimension

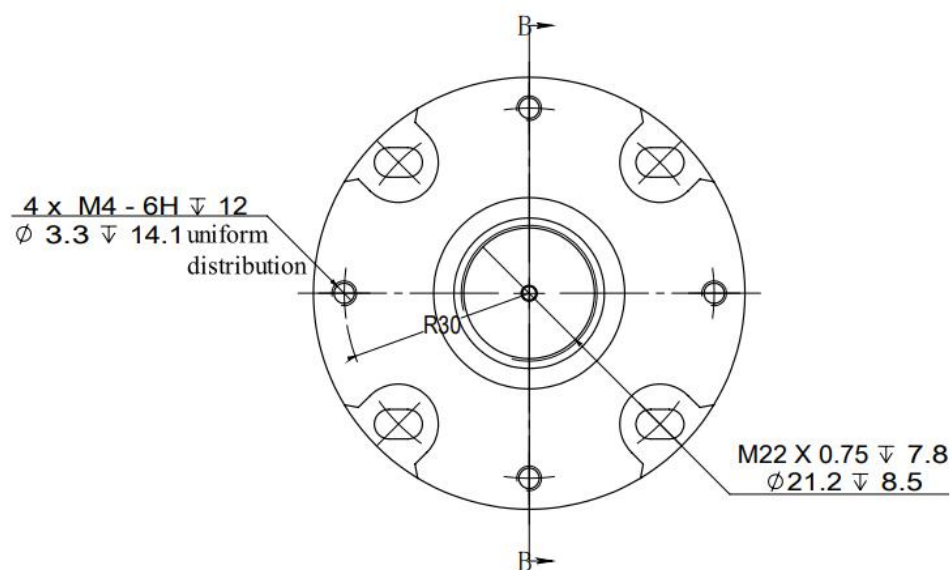


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7. Flange beam expander mounting hole size reference, standard configuration for this model

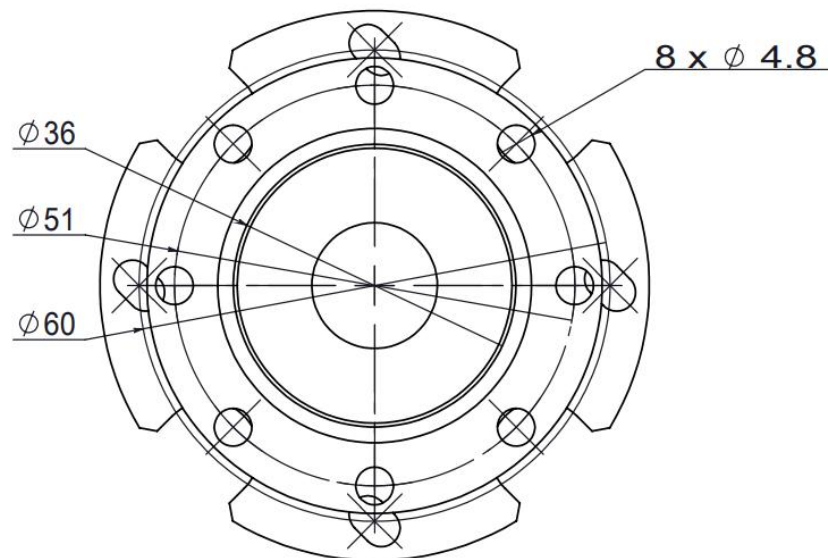


8. Threaded beam expander mounting hole size reference (M22 threaded hole)



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9. Galvanometer connection tube



10. Galvanometer adapter

