

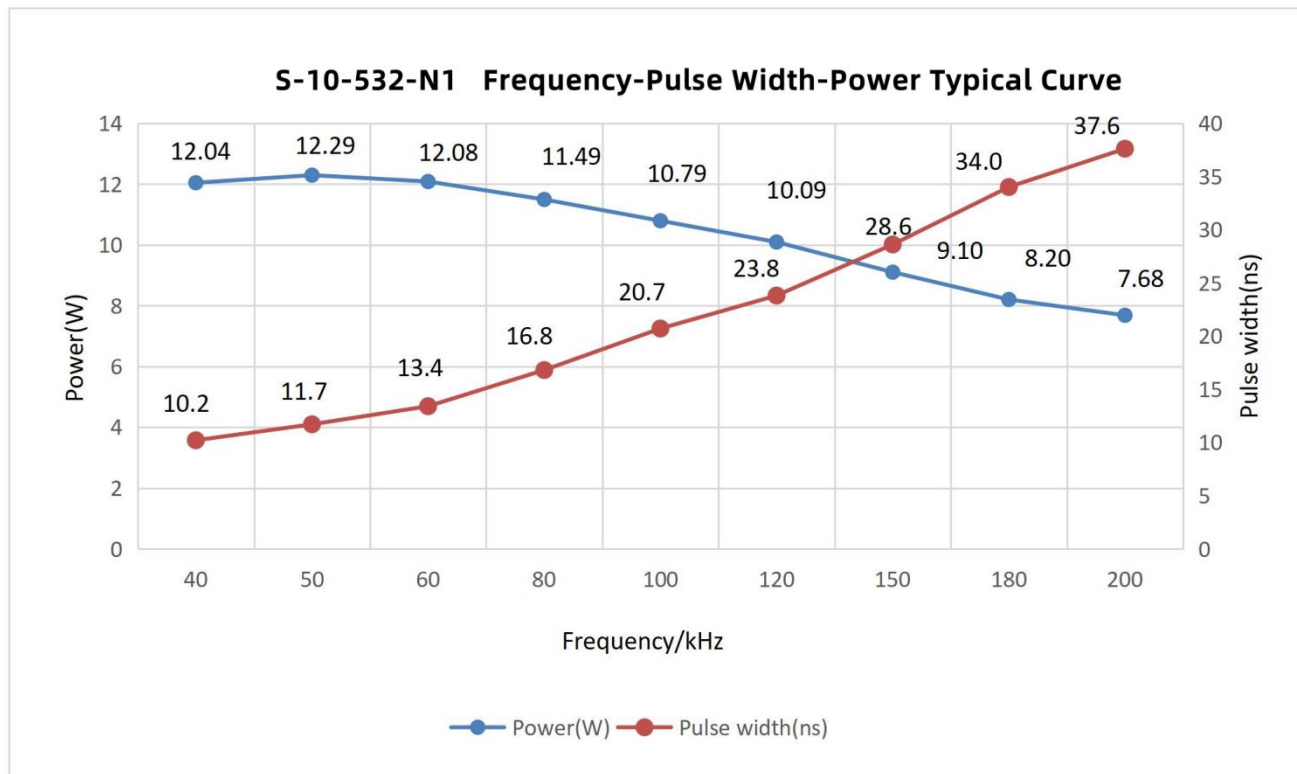
 GZTECH	Specifications	Revision :	V1.0
	Solid Nanosecond Green Laser	Date:	202408
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1. Optical characteristics

No.	Characteristics	Parameter value	Unit
1	Central wavelength	532	nm
2	Maximum pulse energy	>250@40kHz	μJ
3	Output power	>10@40kHz	W
4	Frequency adjustment 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	Vertical	/
10	1/e ² beam diameter (bare light)	0.56±0.1	mm
11	1/e ² beam diameter (8X)	4.5±1	mm
12	Visual beam diameter (8X)	6.75±1.5	mm
13	Bare light divergence angle	<2	mrad
14	Warm-up time	<10	min



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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 supply	≥ 200	W



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3. Environmental requirements

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

4. Water cooler requirements

No.	Characteristics	Parameter value	Unit
22	Cooling capacity	> 420	W
23	Water flow	> 6	L/min
24	Water tank temperature control	25±0.3	°C

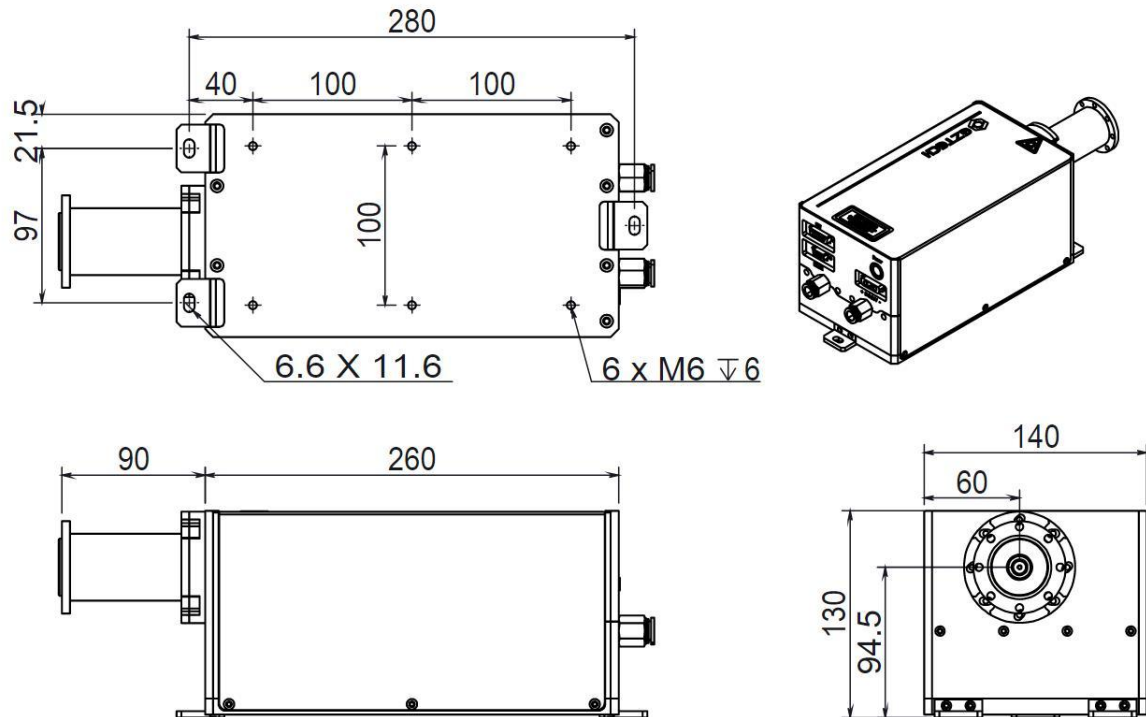
5. Structural characteristics

No.	Characteristics	Parameter value	Unit
25	Laser dimension (without feet and galvanometer adapter)	280*140*130	mm
26	Net weight	≤7	kg

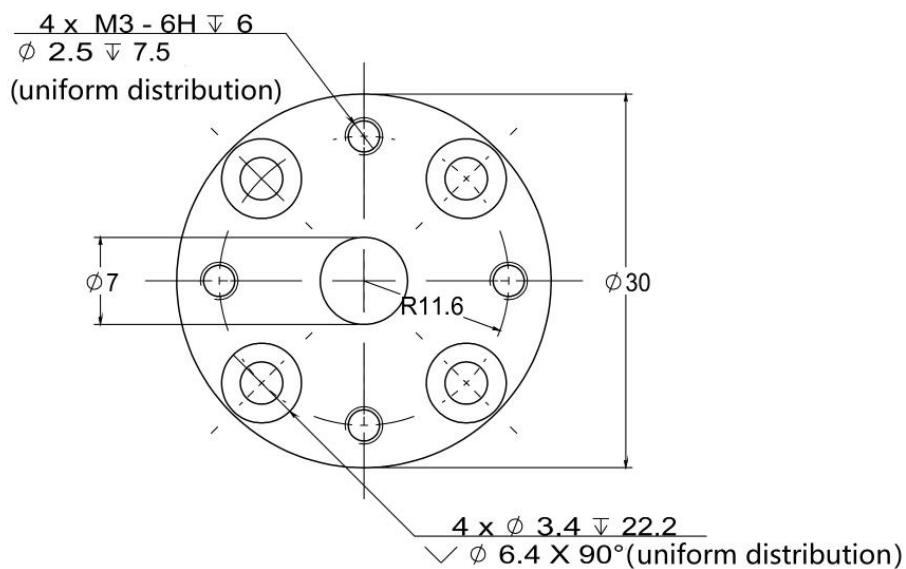


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6. Dimension

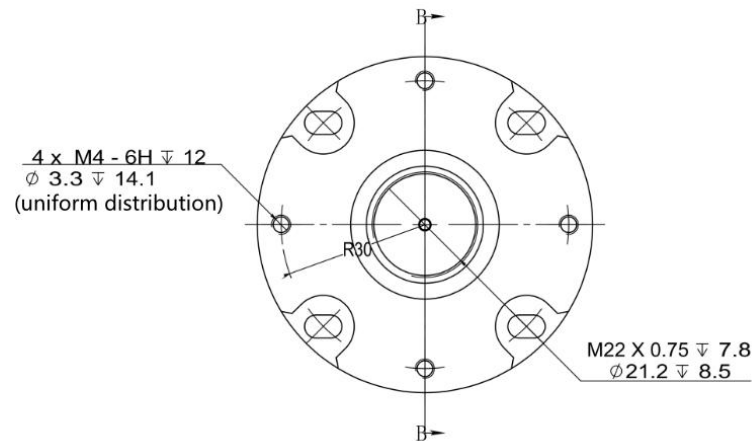


7. Flange beam expander mounting hole size reference (M3 threaded hole)

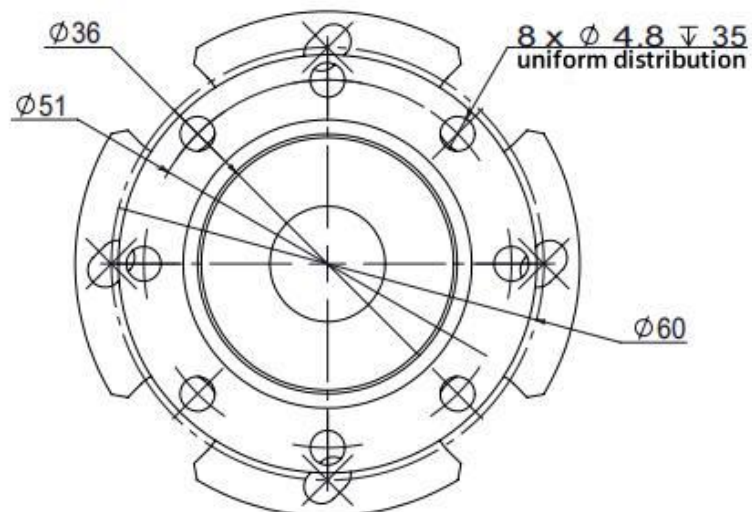


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8. Threaded beam expander mounting hole size reference (M22 threaded hole), standard for the laser



9. Galvanometer connection tube



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10. Galvanometer adapter

