

 GZTECH	Specifications	Revision :	V2.1
	Pulsed solid-state laser	Date:	202503
	Model: S-20-532-H2	Page:	1/6

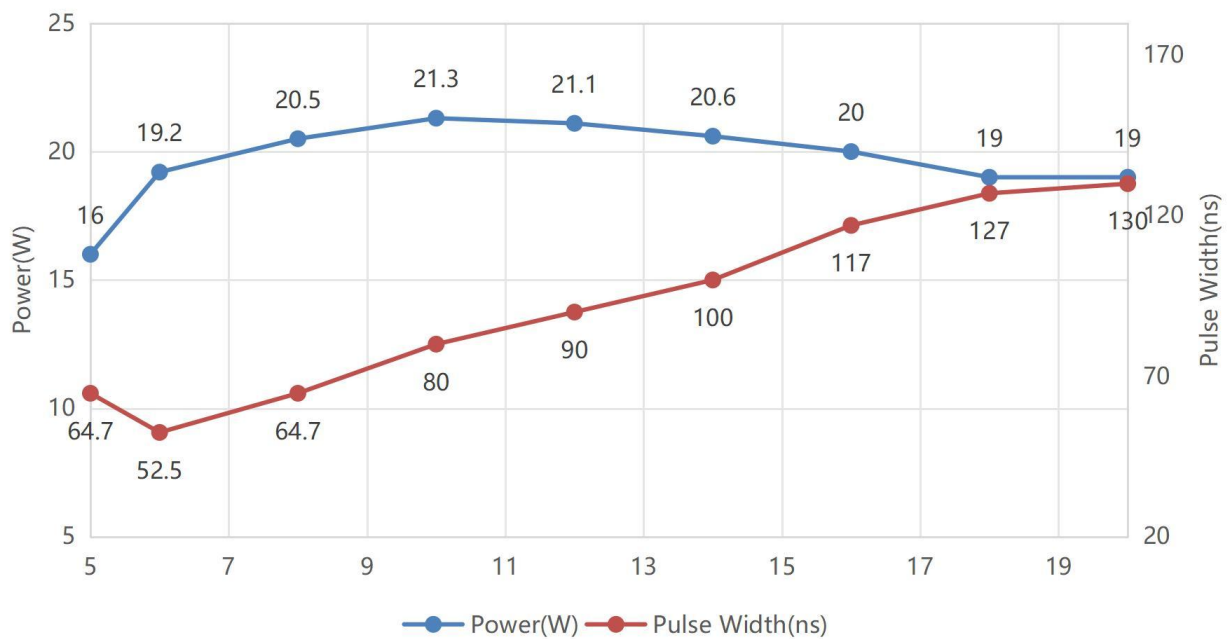
1. Optical characteristics

N	Characteristics	Parameter value	Unit
1	Central wavelength	532	nm
2	Maximum pulse energy	$\geq 2@8\text{kHz}$	mJ
3	Output power	$\geq 18@8\text{kHz}$	W
4	Frequency adjustment range	5-20	kHz
5	Pulse width	$\geq 50@8\text{kHz}$	ns
6	Output power instability	$< 3\%$	RMS
7	Beam quality M^2	< 1.3	/
8	Spot roundness	$\geq 90\%$	/
9	Polarization direction	vertical	/
10	$1/e^2$ beam diameter(Bare beam)	0.7 ± 0.1	mm
11	$1/e^2$ beam diameter (8X)	6 ± 1.5	mm
12	Visual beam diameter (8X)	9 ± 1.5	mm
13	Bare beam divergence angle	< 2	mrad
14	Warm-up time	< 10	min





S-20-532-H2 Curve of Repetition frequency-Pulse width-Power



2. Electrical characteristics

N	Characteristics	Parameter value	Unit
1	Power supply voltage	24	VDC
2	Working current	< 10	ADC
3	Power consumption	< 240	W
4	Recommended power supply	≥ 350	W



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3. Environmental requirements

N	Characteristics	Parameter value	Unit
1	Ambient temperature	5 ~ 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	> 580	W
2	Water flow	> 6	L/min
3	Water tank temperature control	25 ± 0.3	°C

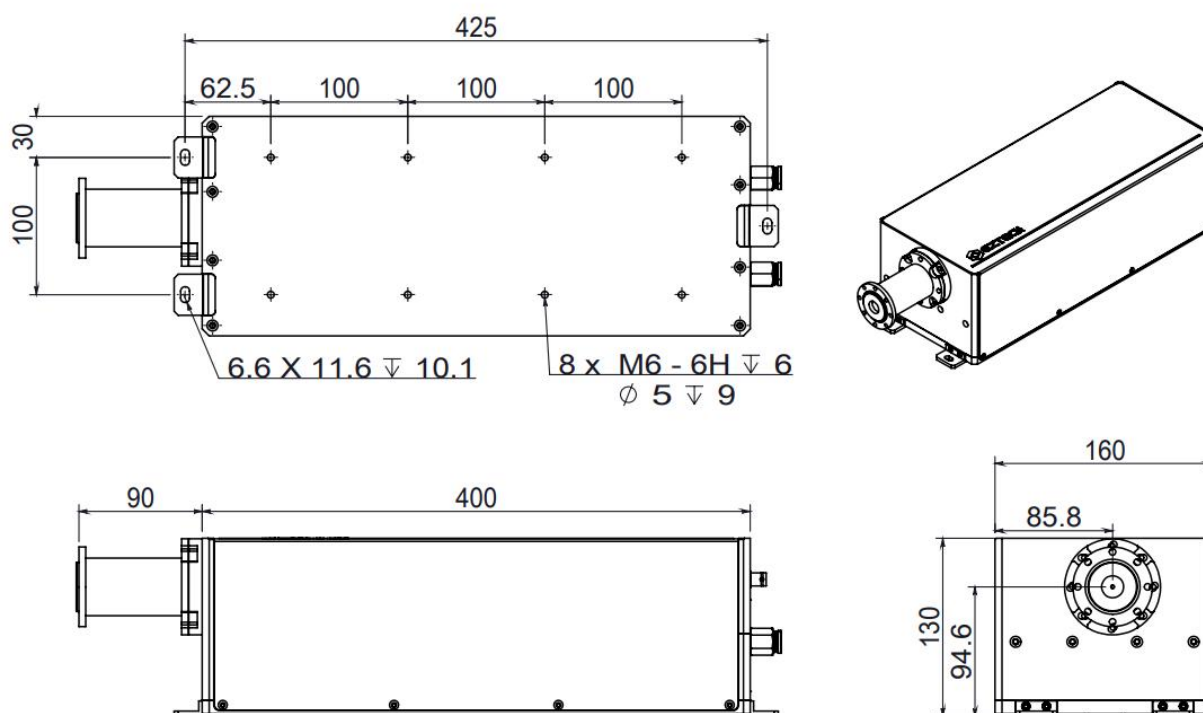


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5. Structural characteristics

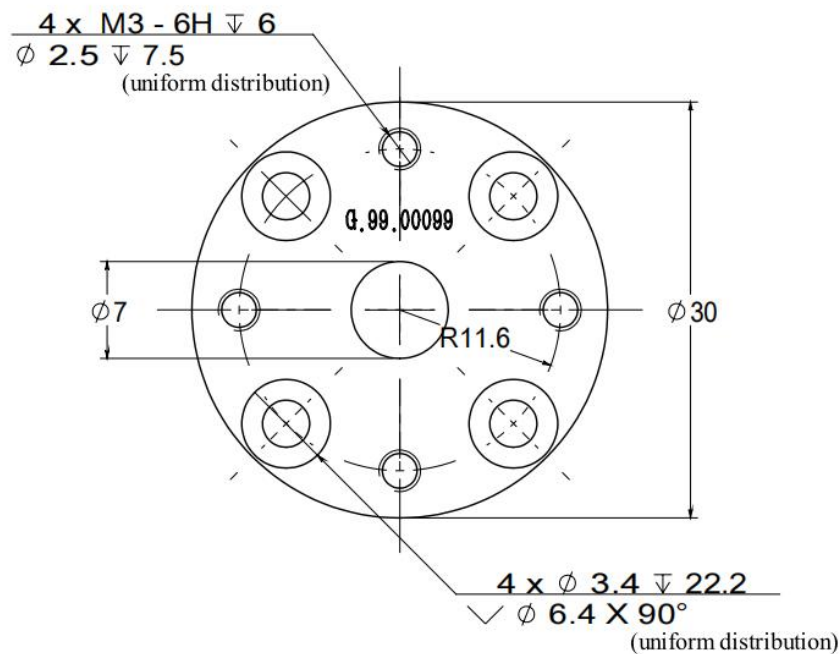
N	Characteristics	Parameter value	Unit
1	Laser dimension (without feet and galvanometer adapter)	400*160*130	mm ³
2	Carton dimension	590*360*275	mm ³
3	Net weight	12	kg

6. Dimension

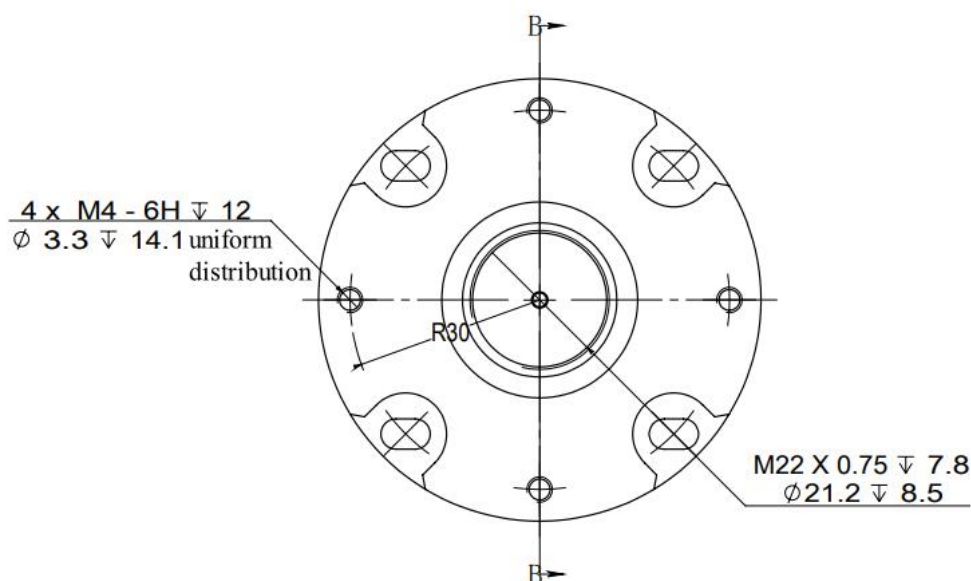


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7. Flange beam expander mounting hole size reference (M3 threaded hole)

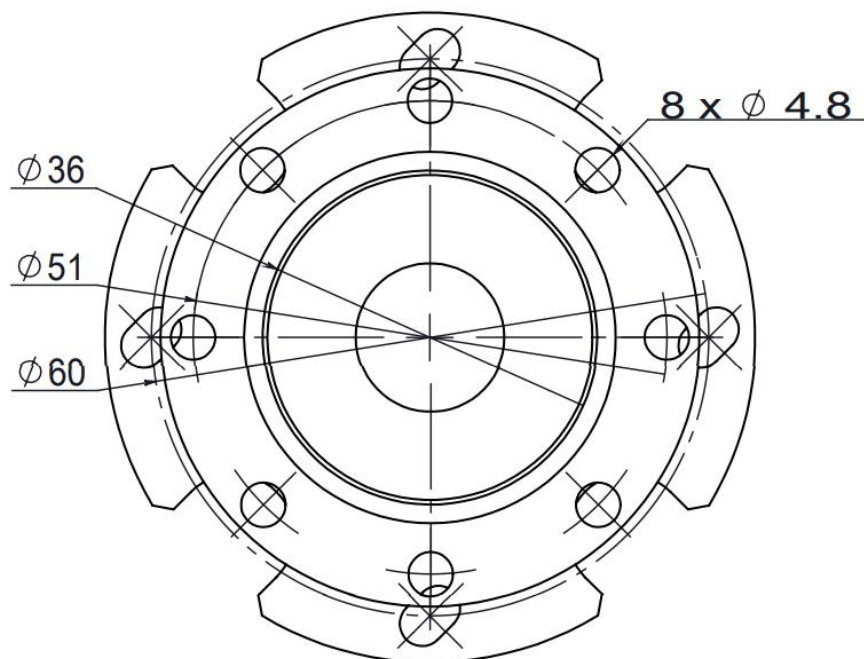


8. Threaded beam expander mounting hole size reference (M22 threaded hole), standard configuration for this model



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9. Galvanometer connection tube



10. Galvanometer adapter

