

 GZTECH	Specifications	Revision:	V4.4
	Pulsed picosecond lasers	Date:	202502
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1. Optical characteristics

No.	Characteristics	Parameter value	Unit
1	Central wavelength	1064	nm
2	Output power	> 50	W
3	Repetition rate	single ~ 2	MHz
4	Pulse width	< 15	ps
5	Output power instability	< 3%	RMS
6	Beam quality M ²	< 1.3	/
7	Spot roundness	> 90%	/
8	Beam diameter (1/e ²)	2.0 ± 0.5	mm
9	Polarization direction	horizontal	/
10	Polarization ratio	> 100:1	/
11	Divergence angle (full angle)	< 2	mrad
12	Warm-up time	< 10	min

2. Electrical characteristics

No.	Characteristics	Parameter value	Unit
1	Power supply voltage	48	VDC
2	Working current	< 20	A

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3	Power consumption	< 1000	W
4	Recommended power supply	≥ 1200	W

3. Environmental requirements

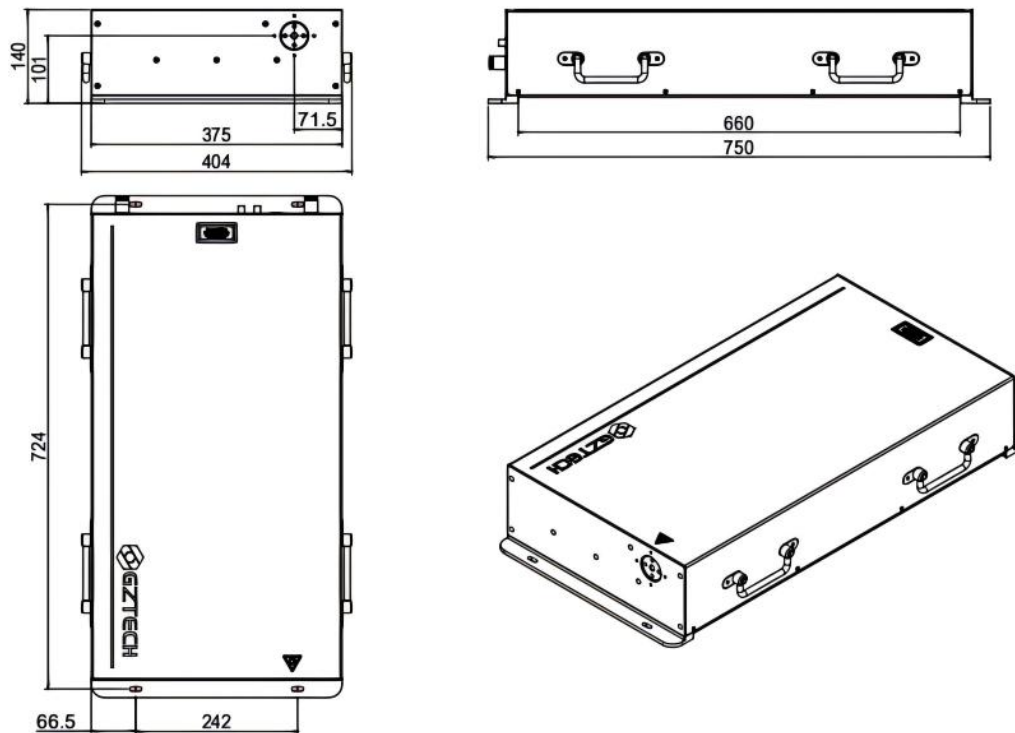
No.	Characteristics	Parameter value	Unit
1	Ambient temperature	15 - 35	°C
2	Storage temperature	-10 - 50	°C
3	Ambient relative humidity	< 90%, no condensation	/
4	Cooling capacity	> 1200	W
5	Water flow rate	> 6	L/min
6	Water tank temperature control	25 ± 0.1	°C
7	Water pipe diameter (laser)	10	mm

4. Structural characteristics

No.	Characteristics	Parameter value	Unit
1	Laser dimension (without feet and galvanometer adapter)	676*350*131	mm ³
2	Carton dimension	800*500*300	mm ³
3	Net weight	39	kg
4	Gross weight	42	kg

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5. Dimension



Laser dimension

6. Galvanometer connection tube

