

 GZTECH	Specifications	Revision:	V1.0
	MOPA pulsed fiber lasers	Date:	202506
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1. Optical characteristics

No.	Characteristics	Parameter value	Unit
1	Central wavelength	1060 - 1080	nm
2	Spectral width @3dB	< 20	nm
3	Maximum peak energy	> 100	kW
4	Output power	120	W
5	Power adjustment range	0 - 100	%
6	Frequency adjustment range	1 - 3000	kHz
7	Laser switching ON/OFF time	< 20	μs
8	Pulse width	2 - 50	ns
9	Output power instability	< 3	%
10	Beam quality M ²	< 1.4	/
12	Anti-high reflection	Yes	/
13	Indicator red light	0.3 - 2	mW
14	Collimated beam diameter (4σ)	10 - 12	mm

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2. Electrical characteristics

No.	Characteristics	Parameter value	Unit
1	Power supply voltage	48	VDC
2	Working current	< 10	A
3	Power consumption	< 480	W
4	Recommended power supply	≥ 600	W

Power Interface Definition

Name	Color	Definition
PE	Yellow-green	GND
0 V	Blue	48V DC power negative pole
+ 48 V	Brown	48V DC power positive pole

3. Environmental requirements

No.	Characteristics	Parameter value	Unit
1	Operating temperature	0 - 40	°C
2	Storage temperature	-10 - 60	°C
3	Cooling method	Water cooling	/
4	Water cooler set temperature	28 ± 1	°C

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5	Water cooler flow rate	> 2	L/min
6	Water pipe diameter	10	mm
7	Cooling capacity	> 500	W

4. Structural characteristics

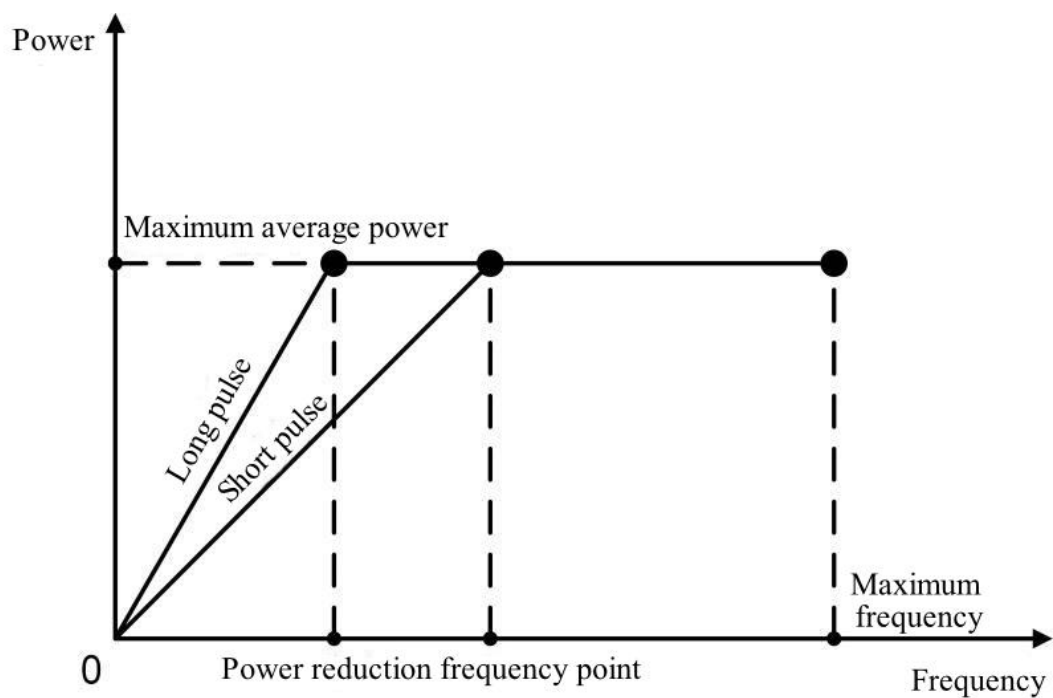
No.	Characteristics	Parameter value	Unit
1	Laser dimension	424*296*70	mm ³
2	Weight: Net weight / Gross weight	9.82 / 12.24	kg
3	Carton dimension	730*410*165	mm ³

5. The pulse width corresponds to the power reduction frequency point and the maximum single pulse energy

No.	Pulse width (ns)	Power reduction frequency(kHz)	Upper frequency limit (kHz)	Max single pulse energy (mJ)
1	2	500	3000	0.24
2	5	300	3000	0.40
3	8	210	3000	0.57
4	10	150	3000	0.8
5	12	150	3000	0.80

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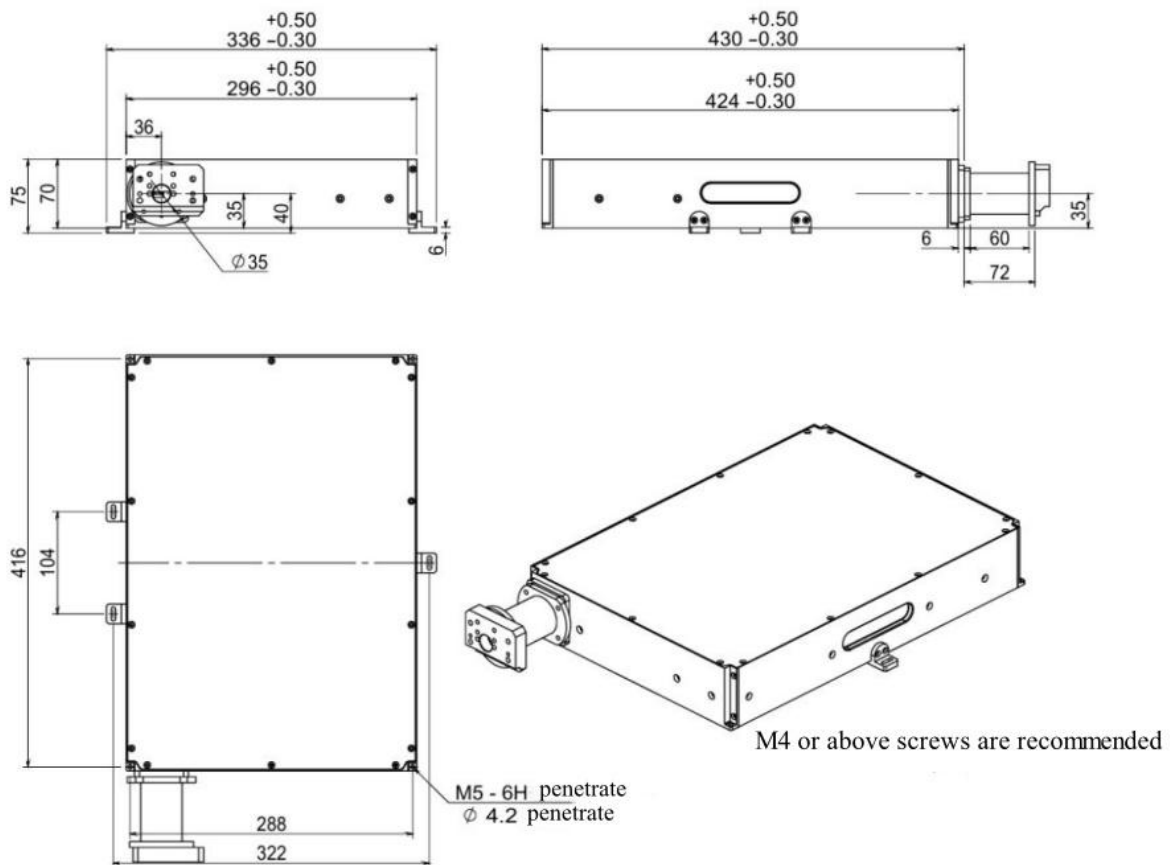
6	15	140	3000	0.86
7	20	130	3000	0.92
8	30	120	2000	1.00
9	40	120	2000	1.00
10	50	120	2000	1.00



The relationship between laser output power and frequency

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6. Dimension



Laser dimension