

 GZTECH	Specifications	Revision:	V1.0
	MOPA pulsed fiber lasers	Date:	202404
	Model: F-120-GT-10-N2-Pro+	Page:	1/5

1. Optical characteristics

N	Characteristics	Parameter value	Unit
1	Central wavelength	1060-1080	nm
2	Spectral width @3dB	<15	nm
3	Maximum peak power	>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	/
11	Polarization direction	Random	/
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

N	Characteristics	Parameter value	Unit
15	Power supply voltage	48	VDC
16	Working current	<10	A
17	Power consumption	<480	W
18	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



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3. Environmental requirements

N	Characteristics	Parameter value	Unit
19	Operating temperature	0 - 40	°C
20	Storage temperature	-10 - 60	°C
21	Cooling method	Water cooling	/
22	Water cooler set temperature	28±1	°C
23	Water cooler flow	>2	L/min
24	Water pipe diameter	10	mm
25	Cooling capacity	>500	W

4. Structural characteristics

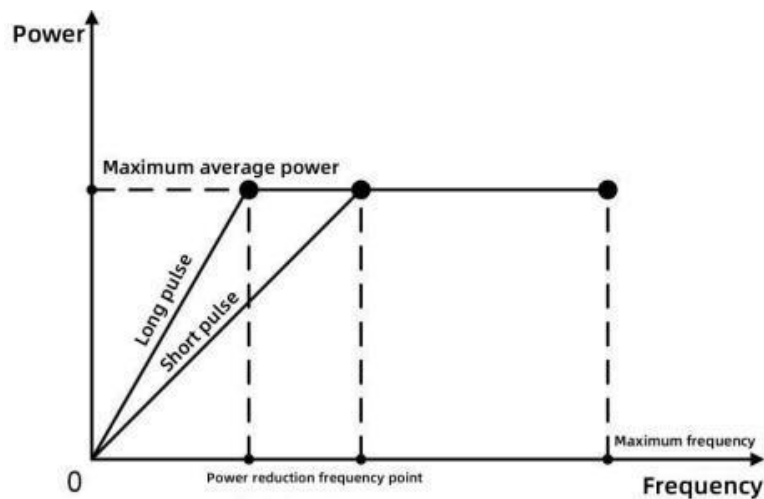
N	Characteristics	Parameter value	Unit
26	Laser dimension	424*296*72	mm ³
27	Weight:Net weight/Gross weight	10.48(with galvanometer)/12.24	kg
28	Carton dimension	730*410*165	mm ³



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

N	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	0.80
5	12	150	3000	0.80
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

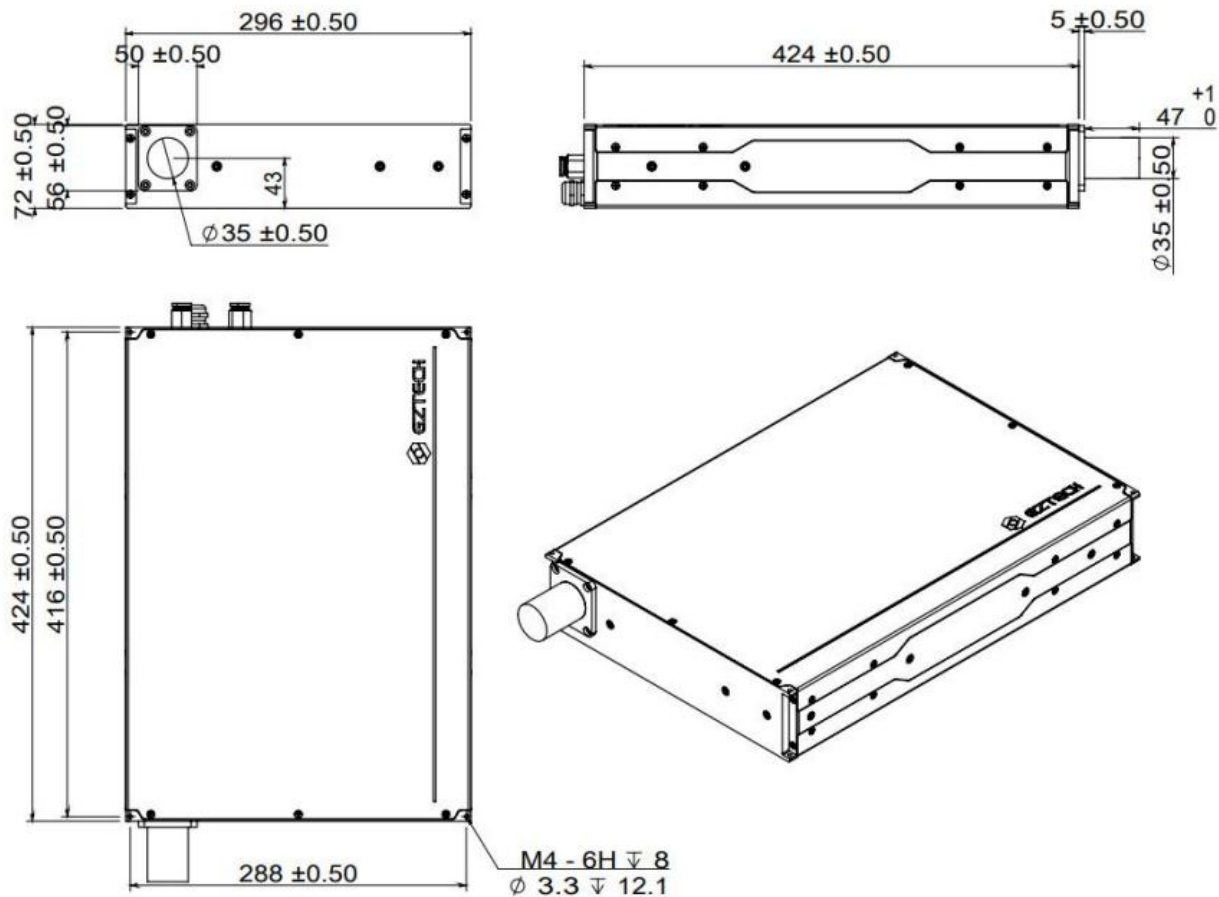


The relationship between laser output power and frequency



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6. Dimension



Laser dimension

