

 GZTECH	Specifications	Revision:	V1.0
	MOPA pulsed fiber lasers	Date:	202503
	Model: F-200-GT-10-N2-Pro	Page:	1/4

1. Optical characteristics

No.	Characteristics	Parameter value	Unit
1	Central wavelength	1060 - 1080	nm
2	Spectral width @3dB	< 20	nm
3	Maximum peak power	> 100	kW
4	Output power	200	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 ± 1	mm

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2. Electrical characteristics

No.	Characteristics	Parameter value	Unit
1	Power supply voltage	48	VDC
2	Working current	< 18	A
3	Power consumption	< 850	W
4	Recommended power supply	≥ 1000	W

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	Chiller set temperature	28 ± 1	°C
5	Chiller flow rate	> 4	L/min
6	Water pipe diameter	10	mm
7	Cooling capacity	> 1000	W

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4. Structural characteristics

No.	Characteristics	Parameter value	Unit
1	Laser dimension	424*278*70	mm ³
2	Net weight	10.5	kg

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	810	3000	0.25
2	5	470	3000	0.42
3	8	330	3000	0.6
4	10	300	3000	0.66
5	12	300	3000	0.66
6	15	250	3000	0.8
7	20	230	3000	0.87
8	30	200	2000	1.00
9	40	190	2000	1.05
10	50	180	2000	1.11



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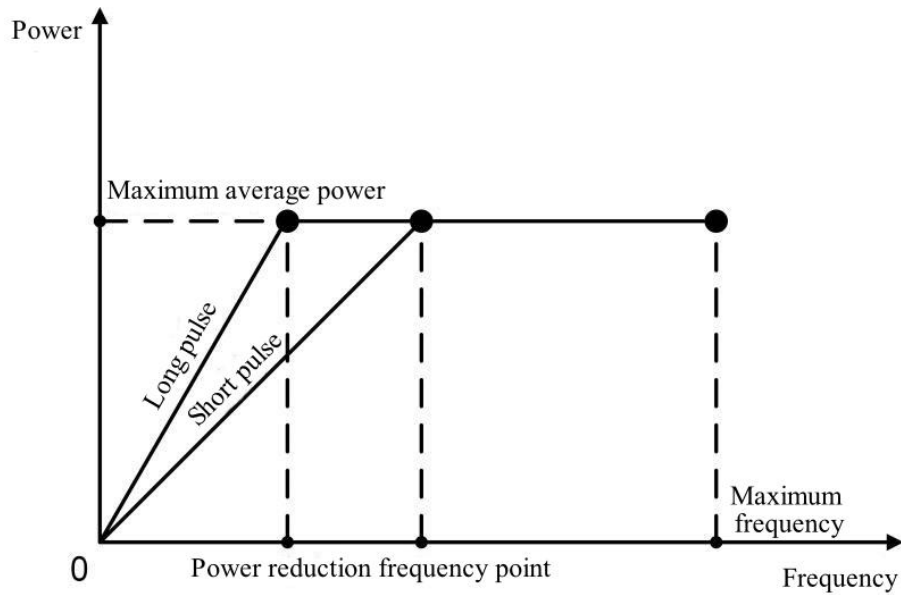
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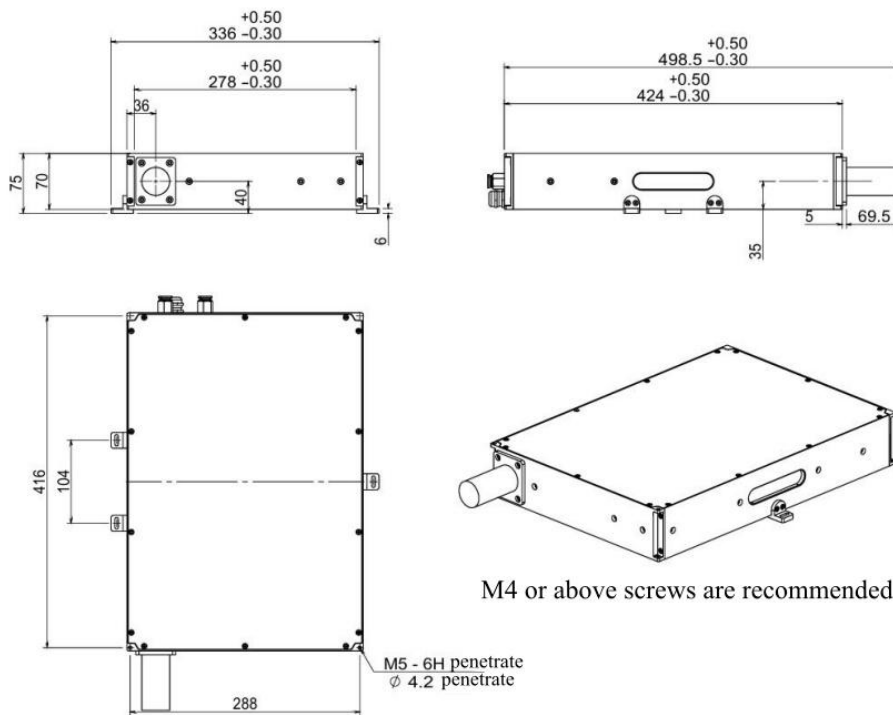
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The relationship between laser output power and frequency

6. Dimension



Laser dimension

A leading supplier of advanced lasers for precision manufacturing

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