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1. Optical characteristics

No.	Characteristics	Parameter value	Unit
1	Central wavelength	1060 - 1080	nm
2	Spectral width @3dB	< 15	nm
3	Maximum pulse energy	0.8	mJ
4	Output power	20	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 - 500	ns
9	Output power instability	< 3	%
10	Beam quality M ²	< 1.5	/
11	Polarization direction	Random	/
12	Anti-high reflection	Yes	/
13	Indicator red light	0.3 - 2	mW
14	Collimated beam diameter (4σ)	6 - 8	mm
15	Delivery cable length	2	m

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2. Electrical characteristics

No.	Characteristics	Parameter value	Unit
1	Power supply voltage	24	VDC
2	Working current	< 5	A
3	Power consumption	< 120	W
4	Recommended power supply	≥ 150	W

3. Environmental requirements

No.	Characteristics	Parameter value	Unit
1	Operating temperature	0 - 40	°C
2	Storage temperature	-10 - 60	°C
3	Cooling method	Air cooling	/

4. Structural characteristics

No.	Characteristics	Parameter value	Unit
1	Laser dimension	190*140*65	mm ³
2	Isolator dimension	122.75*Φ19	mm ³
3	Net weight	1.9	kg

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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	1 (CW)	/	/	/
2	2	850	3000	0.02
3	4	500	3000	0.04
4	6	300	3000	0.07
5	9	240	3000	0.08
6	12	160	3000	0.13
7	20	110	3000	0.18
8	30	86	3000	0.23
9	45	72	2000	0.28
10	60	62	2000	0.32
11	80	58	2000	0.34
12	100	53	1000	0.38
13	150	30	1000	0.67
14	200	25	1000	0.80
15	250	25	1000	0.80
16	350	25	600	0.80
17	450	25	500	0.80
18	500	25	500	0.80



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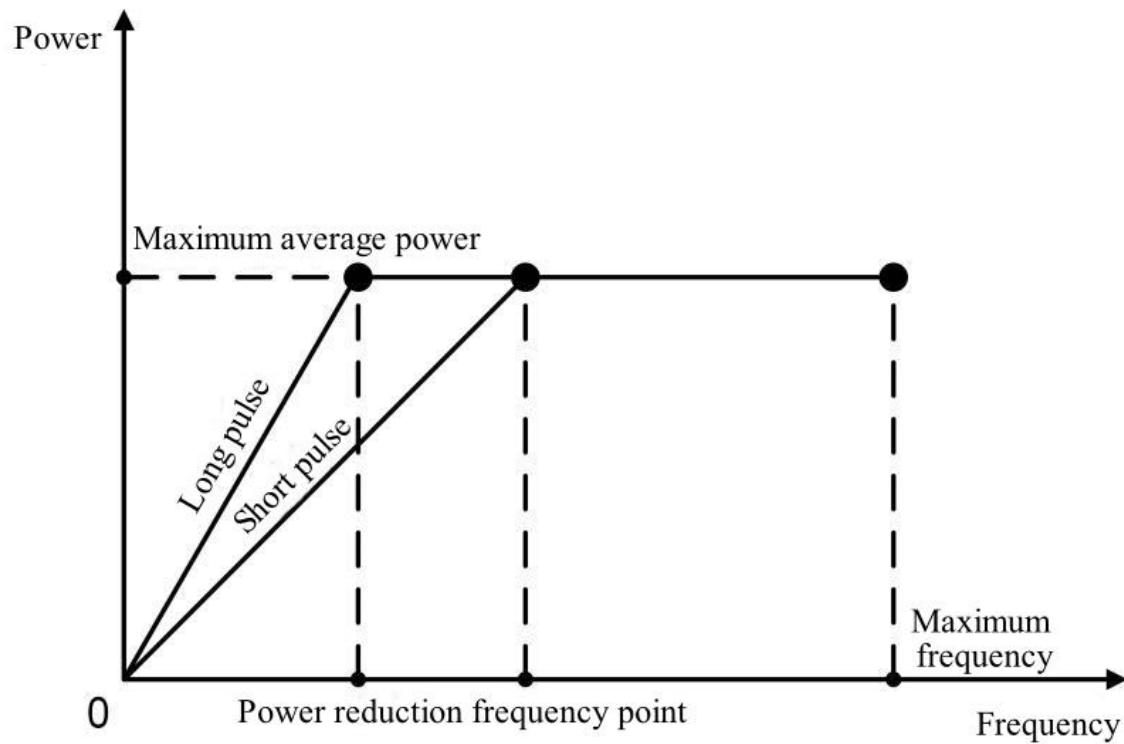
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The relationship between laser output power and frequency



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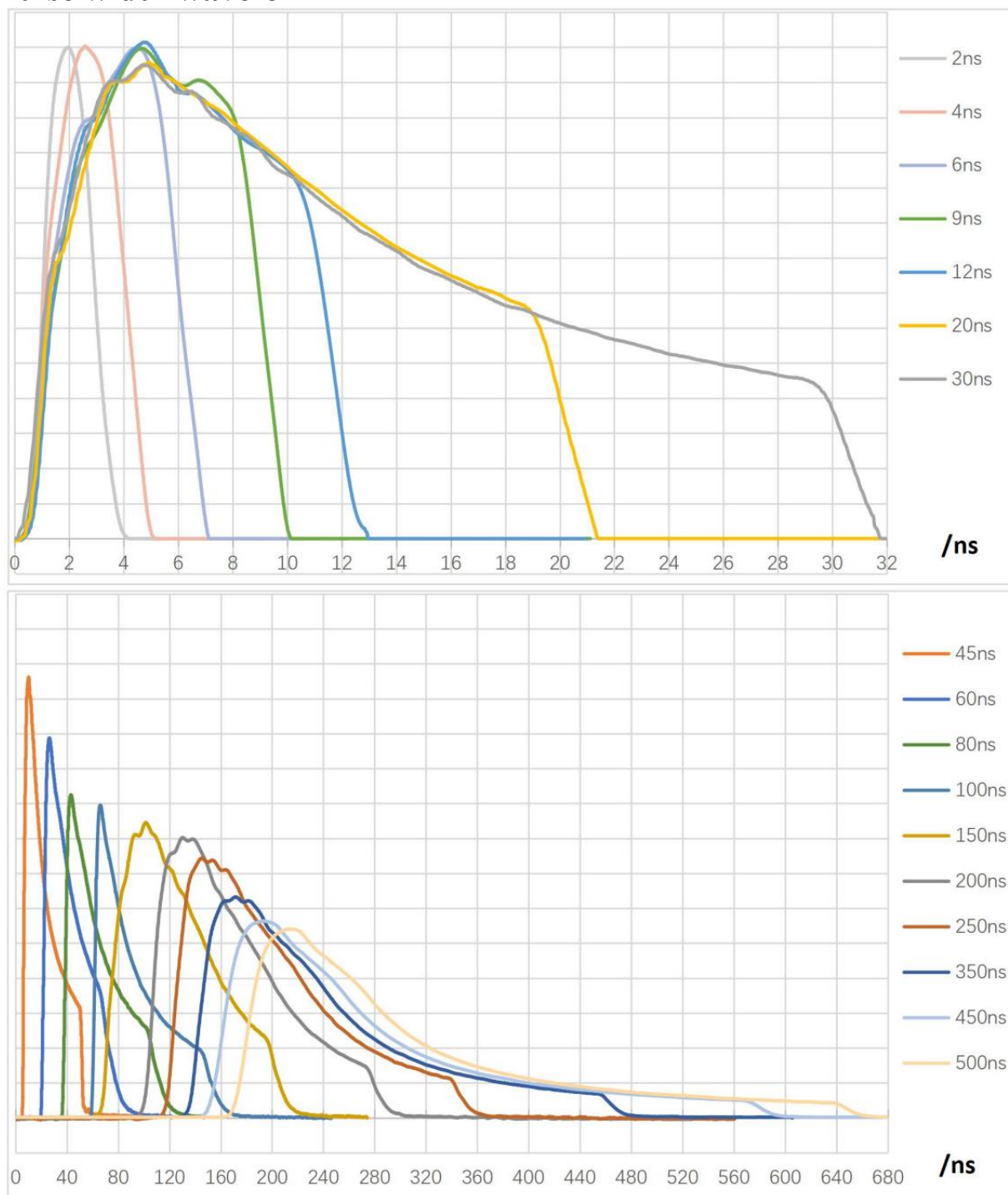
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6. Pulse width waveform

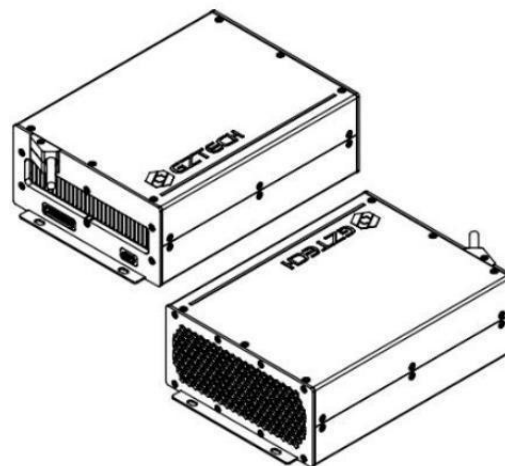
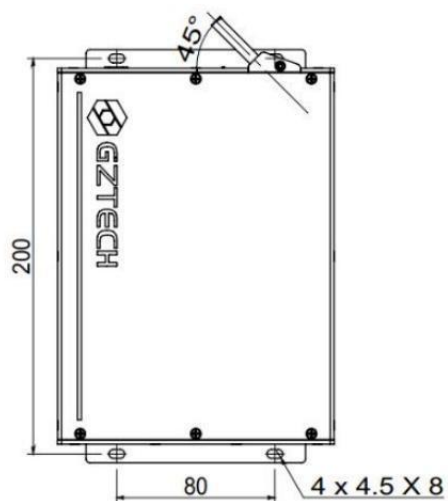
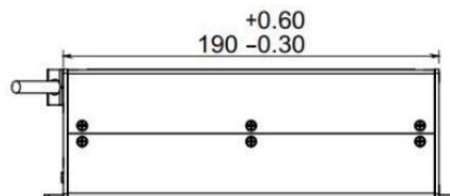
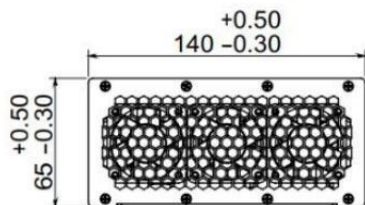


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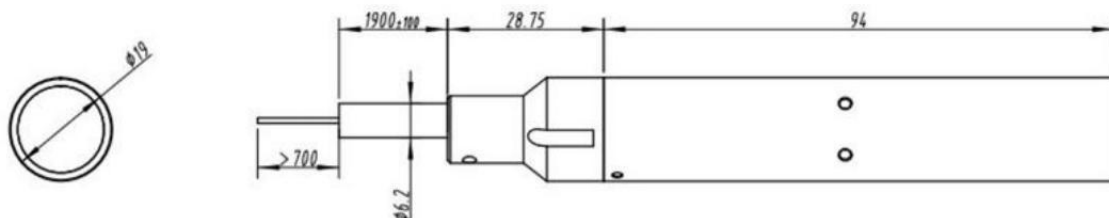
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7. Dimension



M4 screws are recommended

Laser dimension



Isolator dimension