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1. Optical characteristics

N	Characteristics	Parameter value	Unit
1	Central wavelength	1060-1080	nm
2	Spectral width @3dB	<15	nm
3	Maximum pulse energy	1.5	mJ
4	Output power	100	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	<5	%
10	Beam quality M ²	<1.6	/
11	Polarization direction	Random	/
12	Anti-high reflection	Yes	/
13	Indicator red light	0.3-2	mW
14	Beam diameter QCS (4σ)	5-7	mm
15	Delivery cable length	5	m



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2. Electrical characteristics

N	Characteristics	Parameter value	Unit
16	Power supply voltage	24	VDC
17	Working current	<16	A
18	Power consumption	<384	W
19	Recommended power supply	≥400	W

3. Environmental requirements

N	Characteristics	Parameter value	Unit
20	Operating temperature	0 - 40	°C
21	Storage temperature	-10 - 60	°C
22	Cooling method	Air cooling	/

4. Structural characteristics

N	Characteristics	Parameter value	Unit
23	Laser dimension	320.5*220.6*100	mm ³
24	QCS dimension	Φ17*153	mm ³
25	Net weight	7.5	kg



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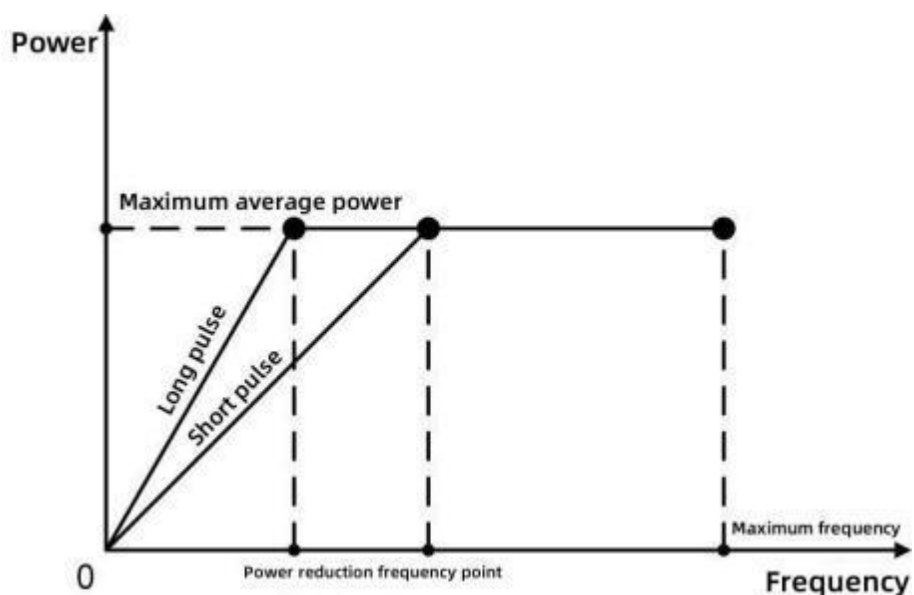
5. The pulse width corresponds to the power reduction frequency point and the maximum single pulse energy

N	Pulse width (ns)	Power reduction frequency(kHz)	Upper frequency limit (kHz)	Max single pulse energy (mJ)
1	1 (CW)	/	/	/
2	2	2990	3000	0.03
3	4	2600	3000	0.04
4	6	1900	3000	0.05
5	8	1400	3000	0.07
6	10	1200	3000	0.08
7	20	625	2000	0.16
8	30	450	1000	0.22
9	40	350	1000	0.29
10	50	300	1000	0.33
11	60	275	1000	0.36
12	70	245	1000	0.41
13	80	225	1000	0.44
14	90	215	1000	0.47
15	100	175	400	0.57
16	150	100	400	1.00



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17	200	85	400	1.18
18	250	75	400	1.33
19	350	65	400	1.54
20	450	65	400	1.54
21	500	65	400	1.54

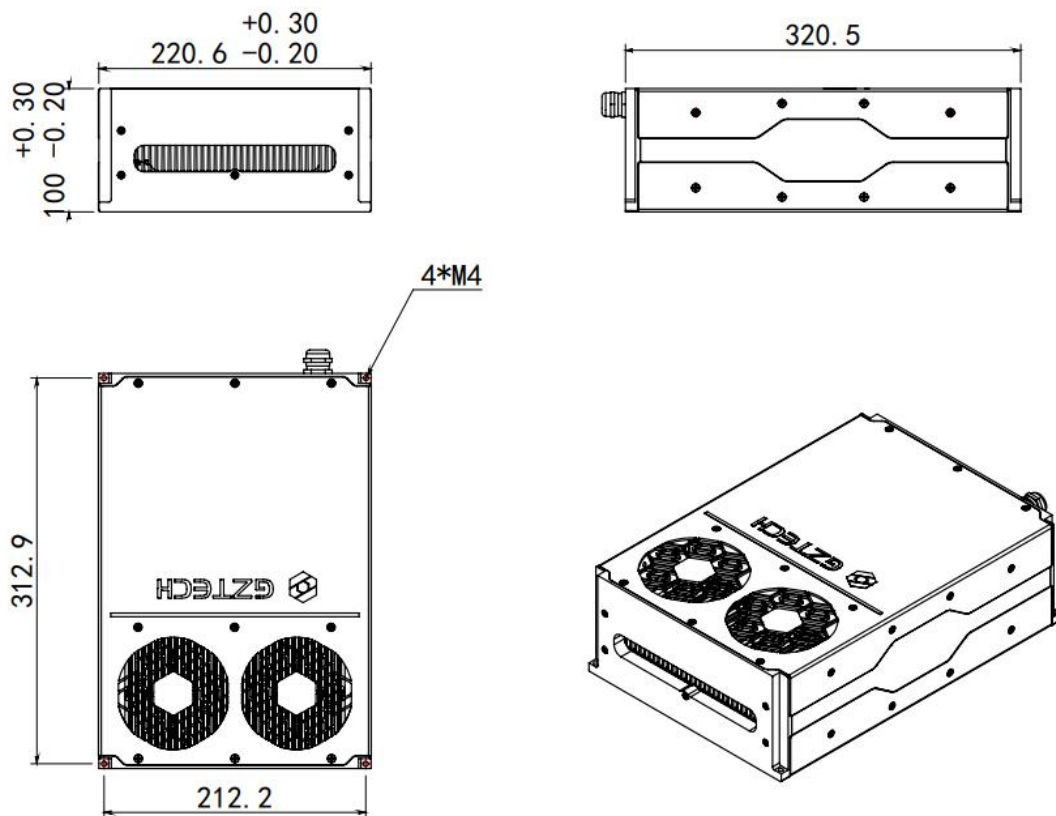


The relationship between laser output power and frequency

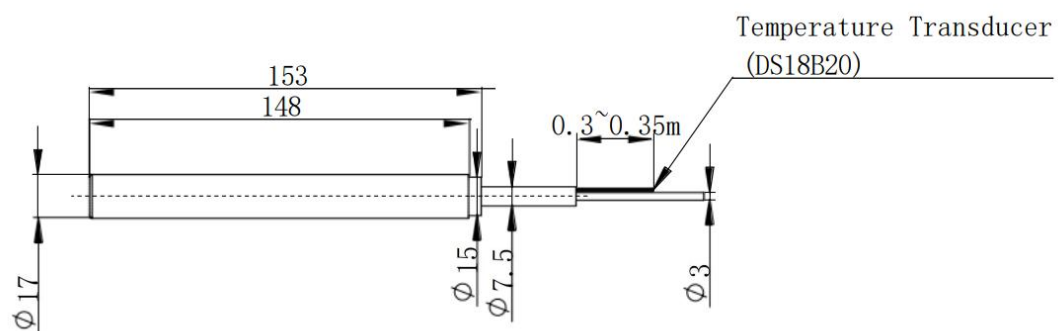


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6. Dimension



Laser dimension



QCS dimension

