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1. Optical characteristics

N	Characteristics	Parameter value	Unit
1	Central wavelength	1060-1080	nm
2	Spectral width @3dB	<20	nm
3	Maximum pulse energy	1.5	mJ
4	Output power	300	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	20-500	ns
9	Output power instability	<5	%
10	Beam quality M ²	<1.8	/
11	Polarization direction	Random	/
12	Anti-high reflection	No	/
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	48	VDC
17	Working current	<25	A
18	Power consumption	<1200	W
19	Recommended power supply	≥1500	W

3. Environmental requirements

N	Characteristics	Parameter value	Unit
20	Operating temperature	0 - 35	°C
21	Storage temperature	-10 - 60	°C
22	Cooling method	Air cooling	/

4. Structural characteristics

N	Characteristics	Parameter value	Unit
23	Laser dimension	443*315*121	mm ³
24	QCS dimension	Φ17*153	mm ³
25	Net weight	15	kg



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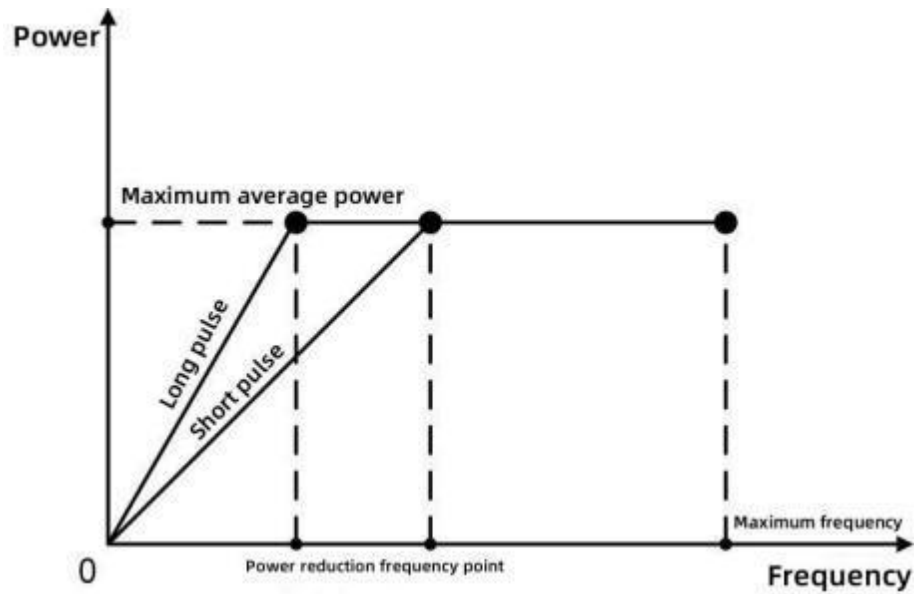
5. The pulse width corresponds to the power reduction frequency point and the maximum single pulse energy

N	Pulse width (ns)	Power reduction frequency(kHz)	Upper frequency limit (kHz)	Max single pulse energy (mJ)
1	1 (CW)	/	/	/
2	20	2700	3000	0.11
3	30	2200	3000	0.14
4	40	1750	2000	0.17
5	50	1200	2000	0.25
6	60	1000	2000	0.30
7	70	900	2000	0.33
8	80	720	2000	0.42
9	90	700	1000	0.43
10	100	650	1000	0.46
11	150	450	1000	0.67
12	200	300	1000	1.00
13	250	260	600	1.15
14	350	240	600	1.25
15	450	200	600	1.50



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16	500	200	500	1.50
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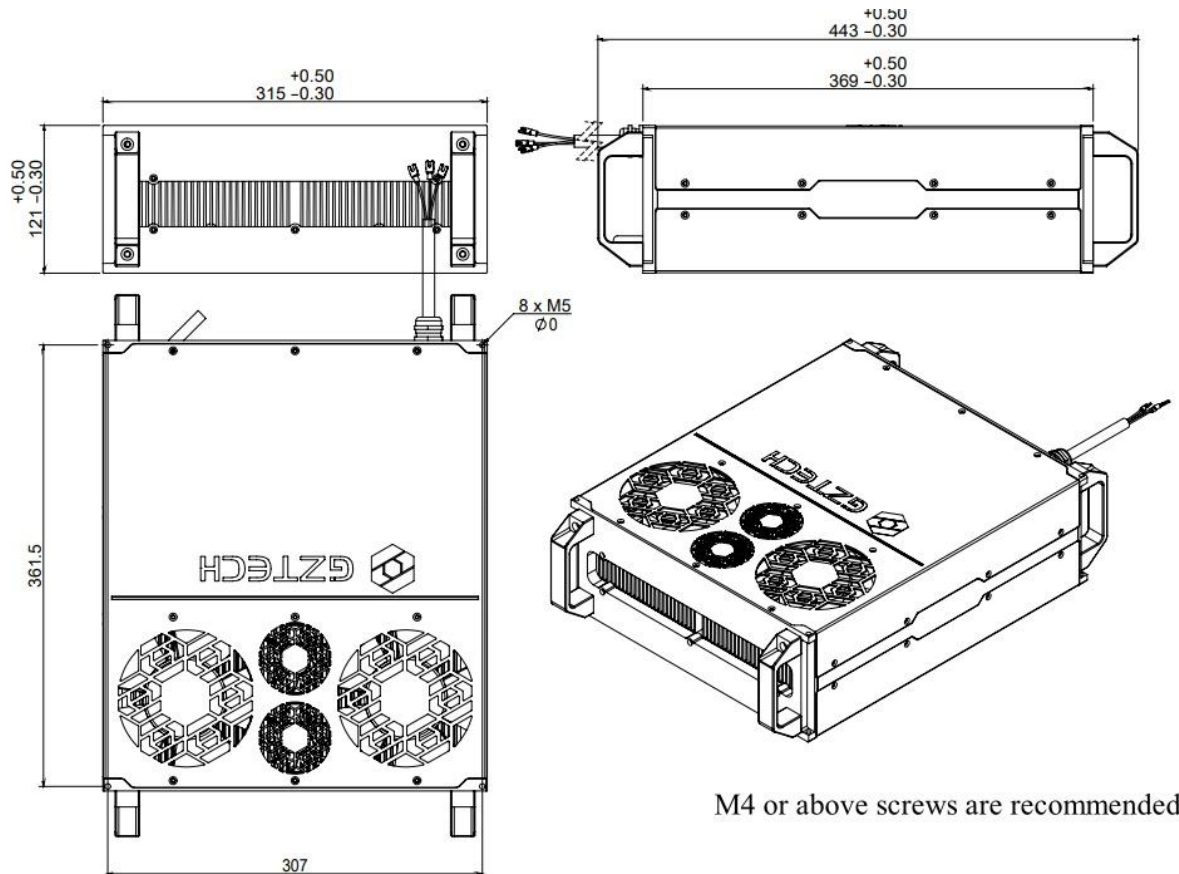


The relationship between laser output power and frequency

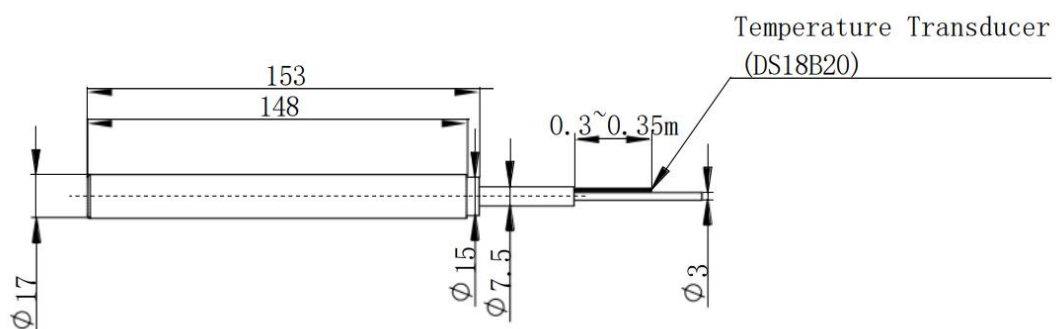


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6. Dimension



Laser dimension



QCS dimension

