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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	1.8	mJ
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	10-500	ns
9	Output power instability	<5	%
10	Beam quality M ²	<1.8	/
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	48	VDC
17	Working current	<16	A
18	Power consumption	<768	W
19	Recommended power supply	≥1000	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	457*475*140	mm ³
24	QCS dimension	Φ17*153	mm ³
25	Net weight	27.5	kg



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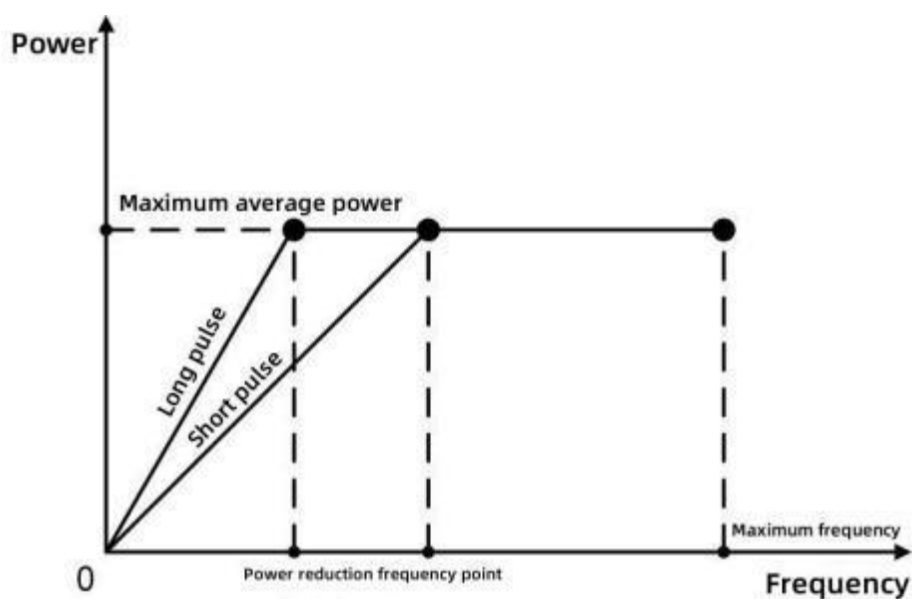
5. The pulse width corresponds to the power reduction frequency point and the maximum single pulse energy

N	Pulse width (ns)	Power reduction frequency(kHz)	Upper frequency limit (kHz)	Max single pulse energy (mJ)
1	1 (CW)	/	/	/
2	10	2400	3000	0.08
3	20	1250	2000	0.16
4	30	900	2000	0.22
5	40	700	2000	0.29
6	50	600	1000	0.33
7	60	550	1000	0.36
8	70	490	1000	0.41
9	80	450	1000	0.44
10	90	430	1000	0.47
11	100	350	1000	0.57
12	150	200	400	1.00
13	200	170	400	1.18
14	250	150	400	1.33
15	350	130	400	1.54



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16	450	110	400	1.82
17	500	110	400	1.82

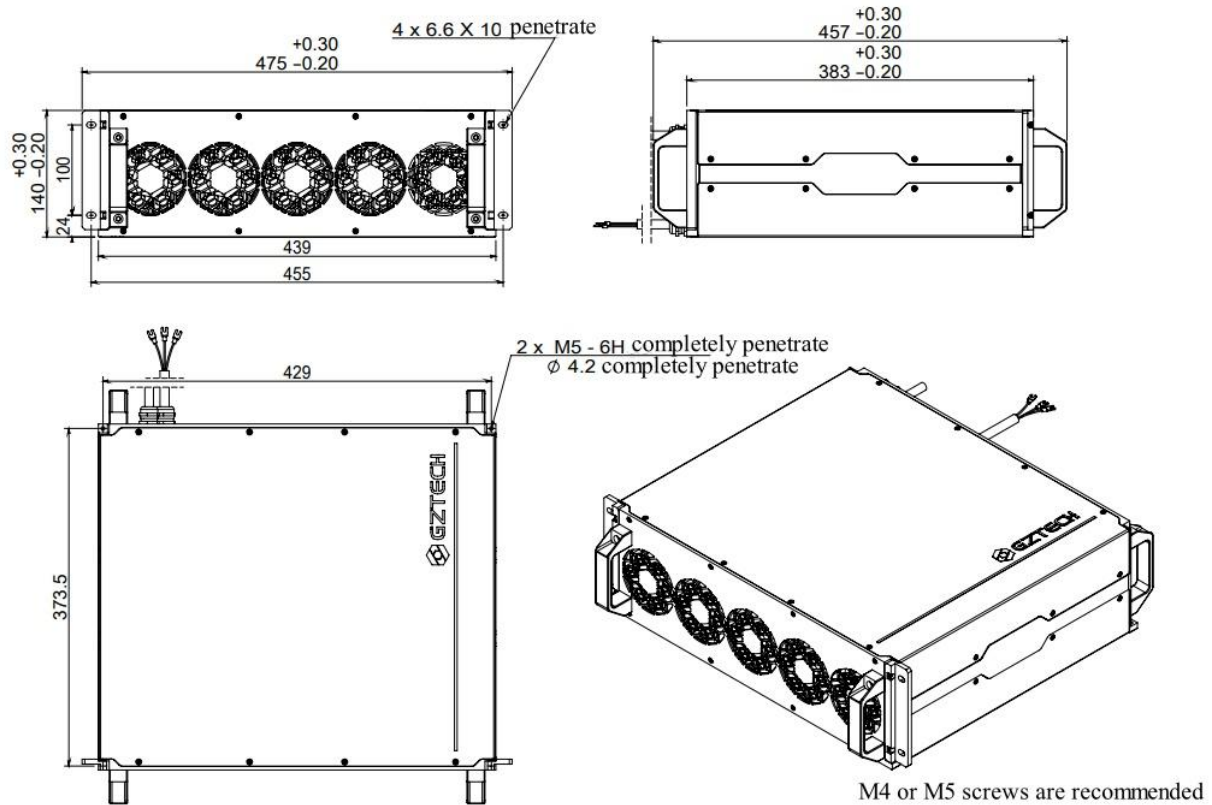


The relationship between laser output power and frequency

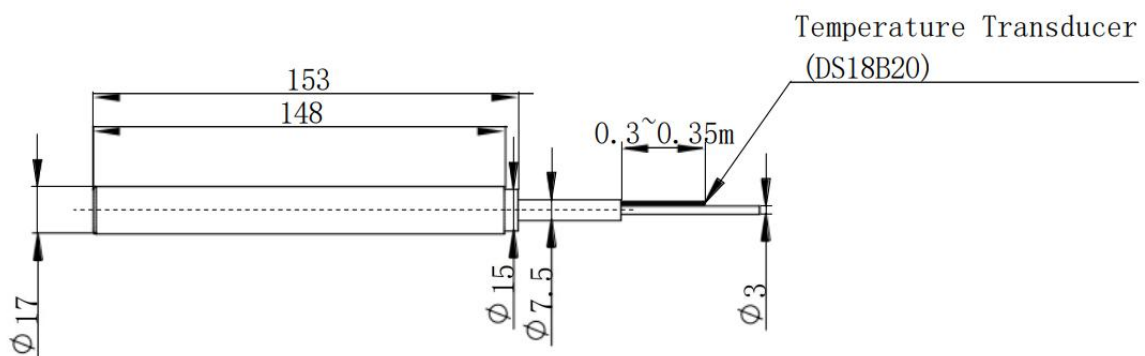


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6. Dimension



Laser dimension



QCS dimension

