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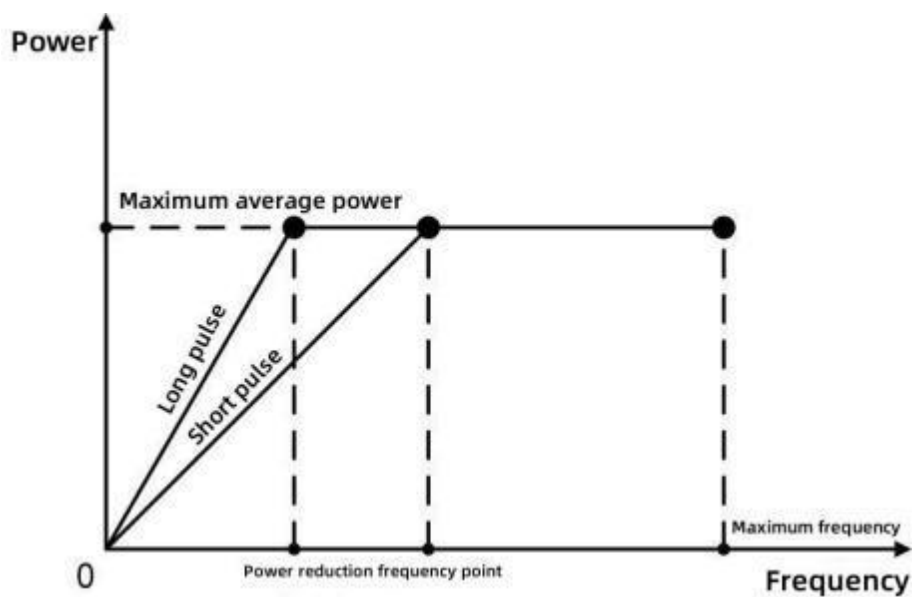
5. The pulse width corresponds to the power reduction frequency point and the maximum single pulse energy

N	Pulse width (ns)	Power reduction frequency(kHz)	Upper frequency limit (kHz)	Max single pulse energy (mJ)
1	1(CW)	/	/	/
2	20	1875	3000	0.16
3	30	1350	3000	0.22
4	40	1050	2000	0.29
5	50	900	2000	0.33
6	60	825	2000	0.36
7	70	735	2000	0.41
8	80	675	2000	0.44
9	90	645	1000	0.47
10	100	525	1000	0.57
11	150	300	1000	1.00
12	200	255	1000	1.18
13	250	225	600	1.33
14	350	195	600	1.54
15	450	165	600	1.82



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16	500	165	500	1.82
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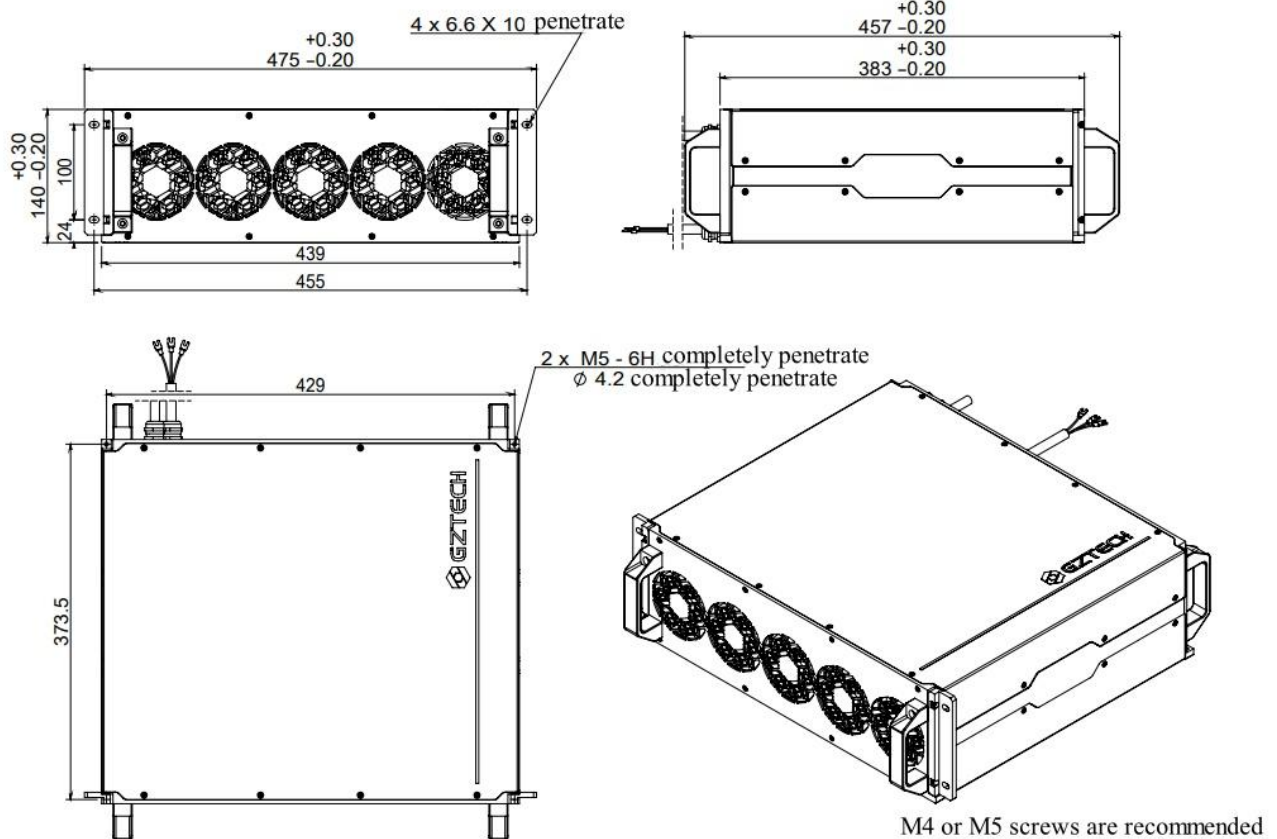


The relationship between laser output power and frequency

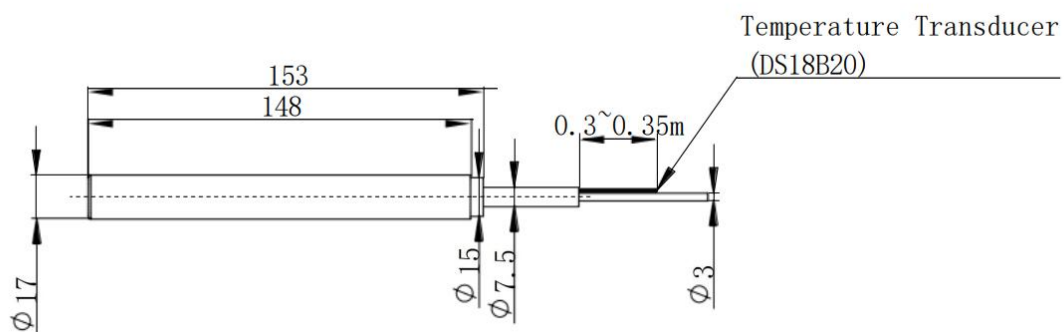


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6. Dimension



Laser dimension



QCS dimension

