1. Optical characteristics

N	Characteristics	Parameter value	Unit
1	Central wavelength	1060-1080	nm
2	Spectral width @3dB	<15	nm
3	Maximum pulse energy	1.0	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	2-50	ns
9	Output power instability	<5	%
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±1 (10mm optional)	mm
15	Delivery cable length	3	m

2. Electrical characteristics

N	Characteristics	Parameter value	Unit
16	Power supply voltage	48	VDC
17	Working current	<15	A
18	Power consumption	<720	W
19	Recommended power supply	≥1000	W

3. Environmental requirements

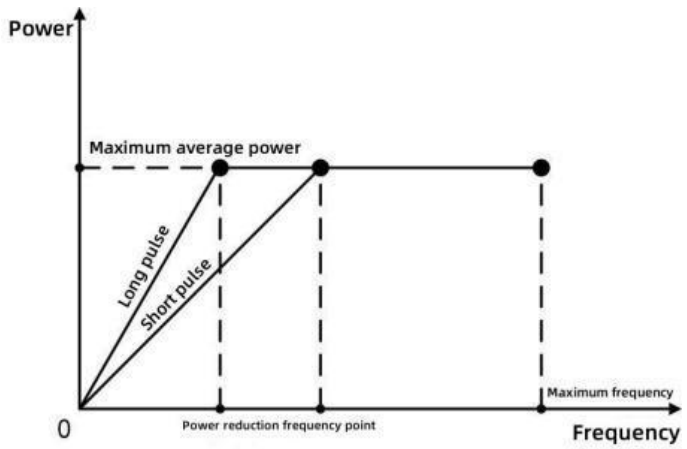
N	Characteristics	Parameter value	Unit
20	Operating temperature	0 - 40	℃
21	Storage temperature	-10 - 60	℃
22	Cooling method (chassis)	Air cooling	/
23	Cooling method (output head)	Water cooling	/
24	Water cooler set temperature	28±1	℃
25	Water cooler flow	1-3	L/min
26	Water pipe diameter	6	mm
27	Water cooler cooling capacity	≥100	W

4. Structural characteristics

N	Characteristics	Parameter value	Unit
28	Laser dimension	448*439*135	mm^3
29	Output head dimension	290*180*65	mm^3
30	Net weight	<35	kg

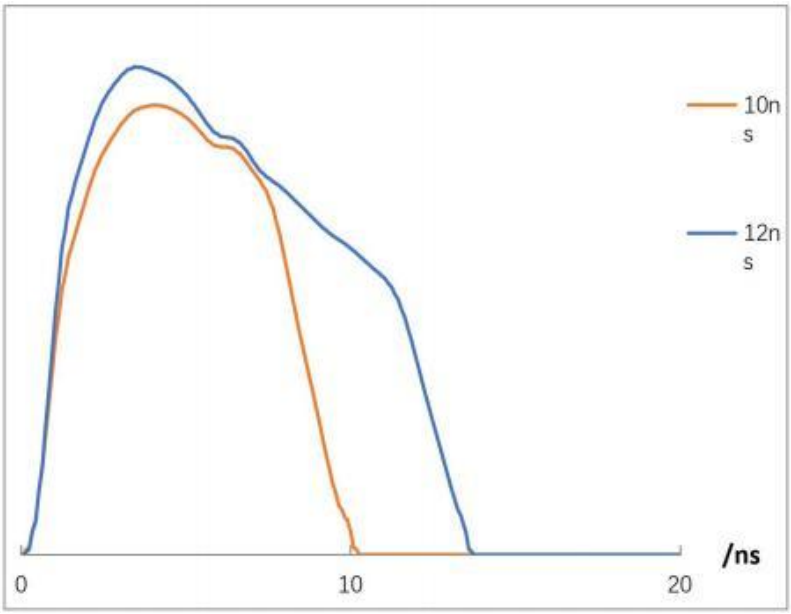
5. The pulse width corresponds to the power reduction frequency point and the maximum single pulse energy

N	Pulse width (ns)	Power reduction frequency(kHz)	Upper frequency limit(kHz)	Max single pulse energy (mJ)
1	2	1600	3000	0.13
2	4	1300	3000	0.15
3	6	980	3000	0.20
4	8	650	3000	0.30
5	10	570	3000	0.35
6	12	550	3000	0.36
7	15	410	3000	0.48
8	20	340	3000	0.59
9	30	250	3000	0.80
10	40	220	2000	0.90
11	50	200	1000	1.00

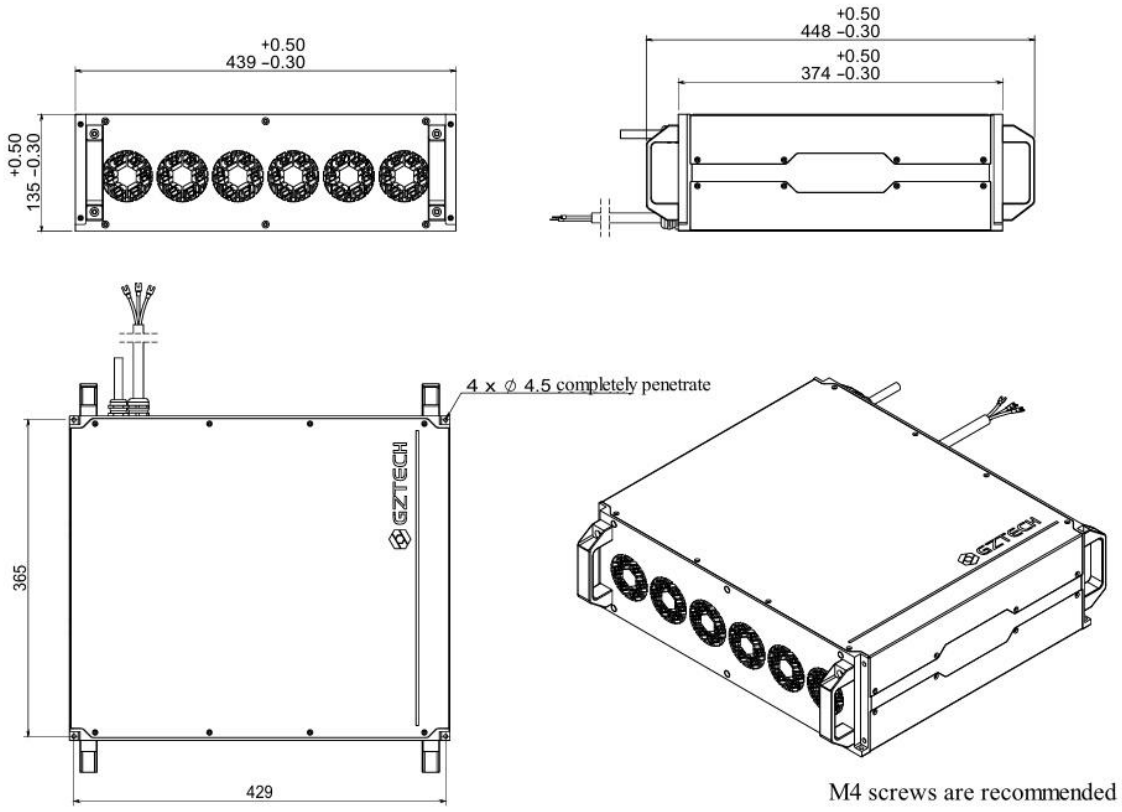


The relationship between laser output power and frequency

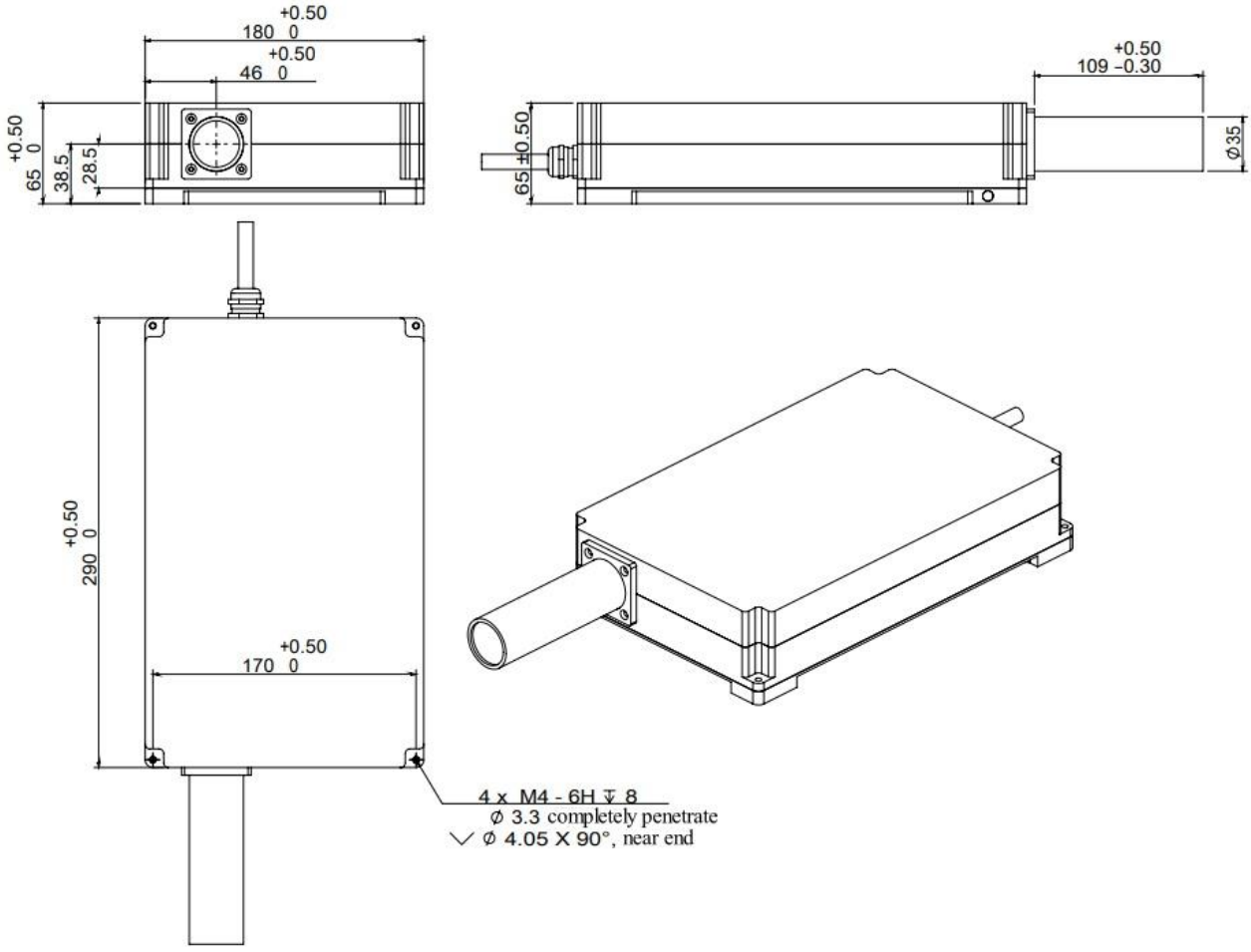
6. Pulse width waveform



7. Dimension



Laser dimension



Output head dimension