1. Optical characteristics

N	Characteristics	Parameter value	Unit
1	Center wavelength	1060-1080	nm
2	Spectral width @3dB	<20	nm
3	Maximum pulse energy	1.0	mJ
4	Output Power	20	W
5	Power adjustment range	0-100	%
6	Frequency adjustment range	1-3000	kHz
7	On/off light response time	<50	μs
8	Pulse Width	0.2-500	ns
9	Output power stability	<5	%
10	Beam quality M2	<1.5	/
11	Polarization direction	Random	/
12	Resist high reaction	Yes	/
13	Indicator light	0.3-2	mW

14	Collimated Beam diameter (4σ)	7（10mm optional）	mm
15	Delivery cable length	2	m

2. Electrical characteristics

N	Characteristics	Parameter value	Unit
16	Power supply voltage	24	VDC
17	Working current	<5	A
18	Power consumption	<120	W
19	Recommended power	≥150	W

3. Environmental requirements

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

4. Structural characteristics

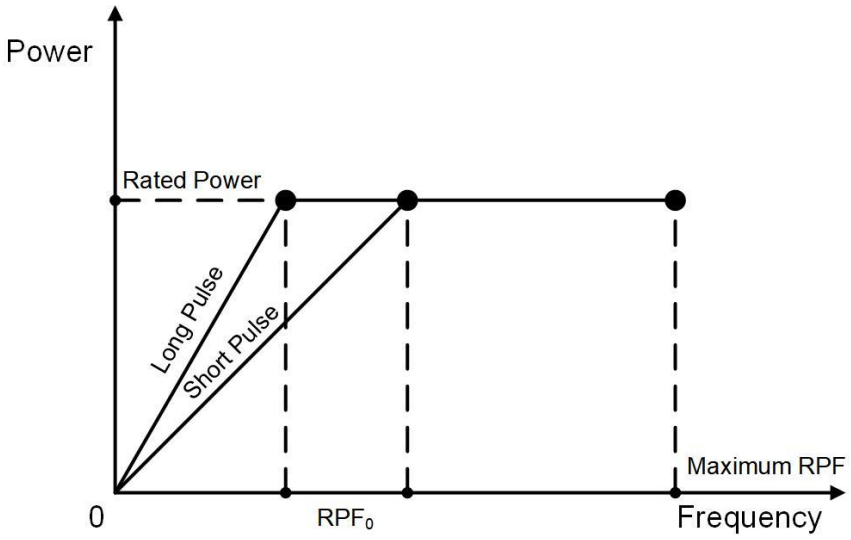
N	Characteristics	Parameter value	Unit
23	Laser dimension	338.5*301*95.8	mm^3
24	Isolator dimension	280*150*51.5	mm^3
25	Net weight	<15	kg

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	640	3000	0.03
2	3	440	3000	0.05
3	5	240	3000	0.08
4	8	160	3000	0.13
5	10	120	3000	0.17
6	20	112	3000	0.18

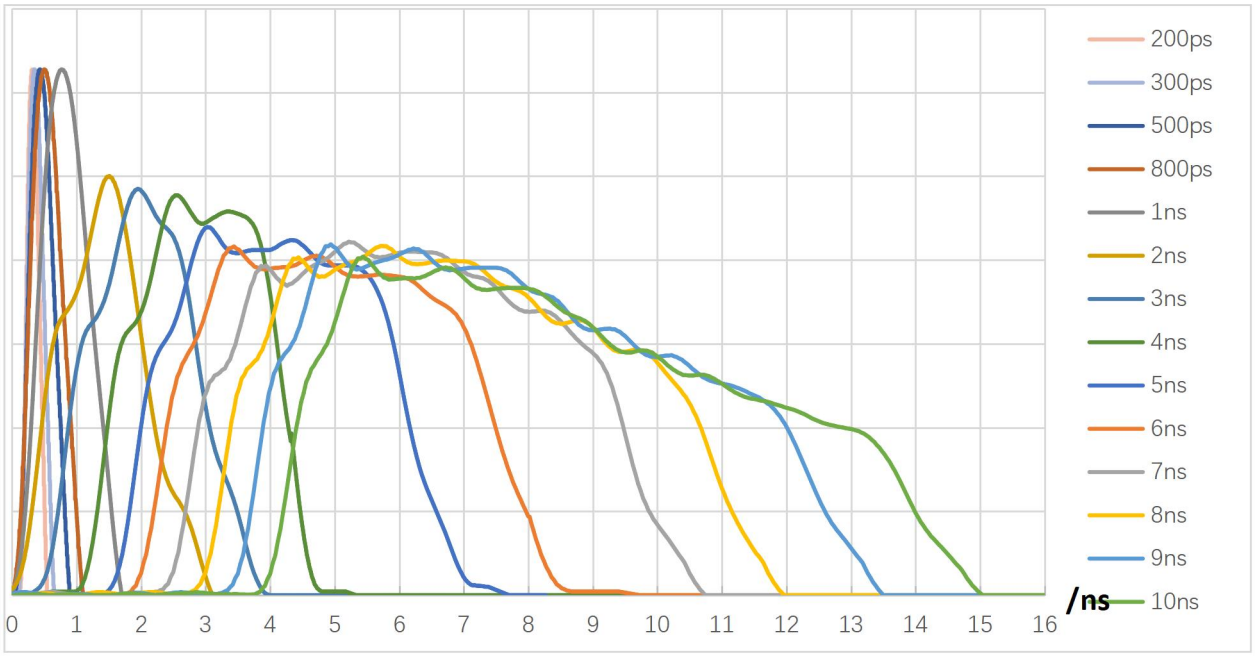
7	30	88	3000	0.23
8	40	68	3000	0.29
9	50	52	3000	0.38
10	60	45	3000	0.44
11	70	42	3000	0.48
12	80	40	3000	0.50
13	90	38	3000	0.53
14	100	36	3000	0.56
15	120	128	3000	0.16
16	200	70	2000	0.29
17	300	58	2000	0.34
18	450	51	2000	0.39
19	600	38	2000	0.53
20	800	34	1000	0.59
21	1000	31	1000	0.65

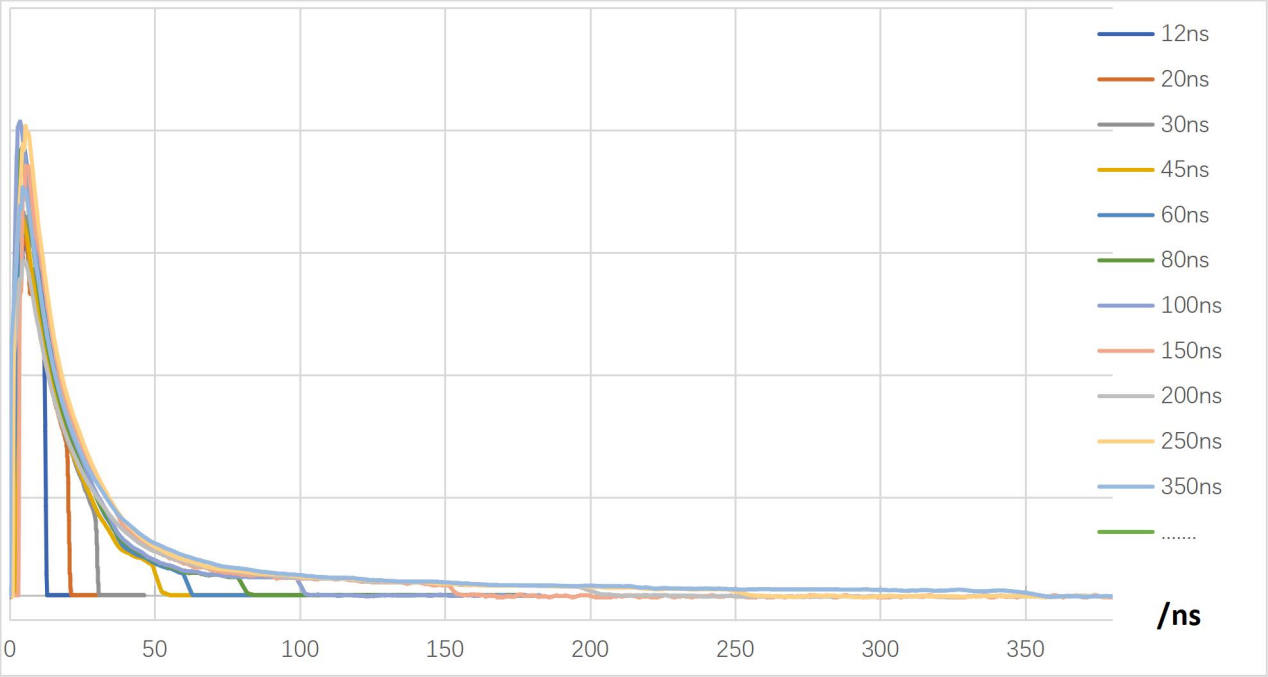
22	1500	28	1000	0.71
23	2000	28	1000	0.71
24	2500	20	400	1.0
25	3500	20	400	1.0
26	5000	20	400	1.0



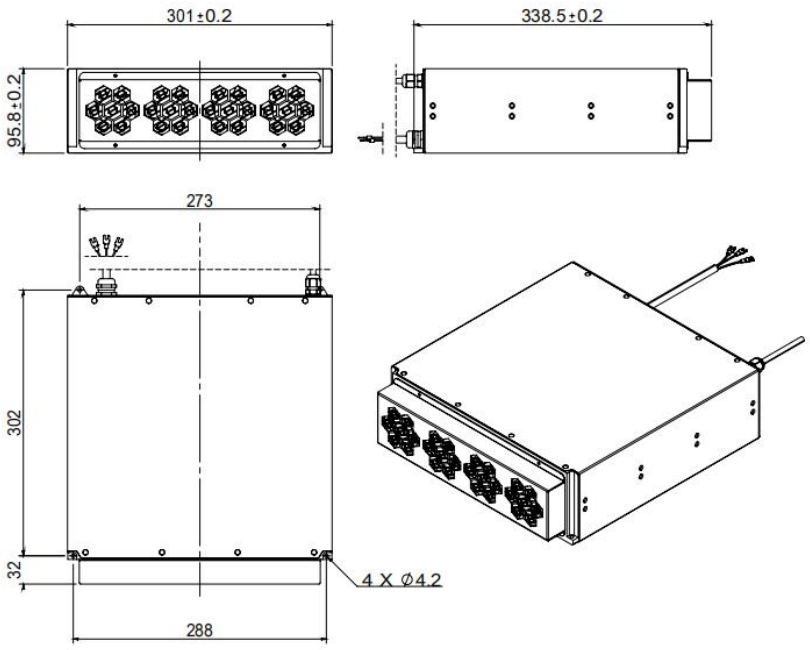
The definition of threshold frequency in the pulsed fiber laser

6. Pulse width waveform

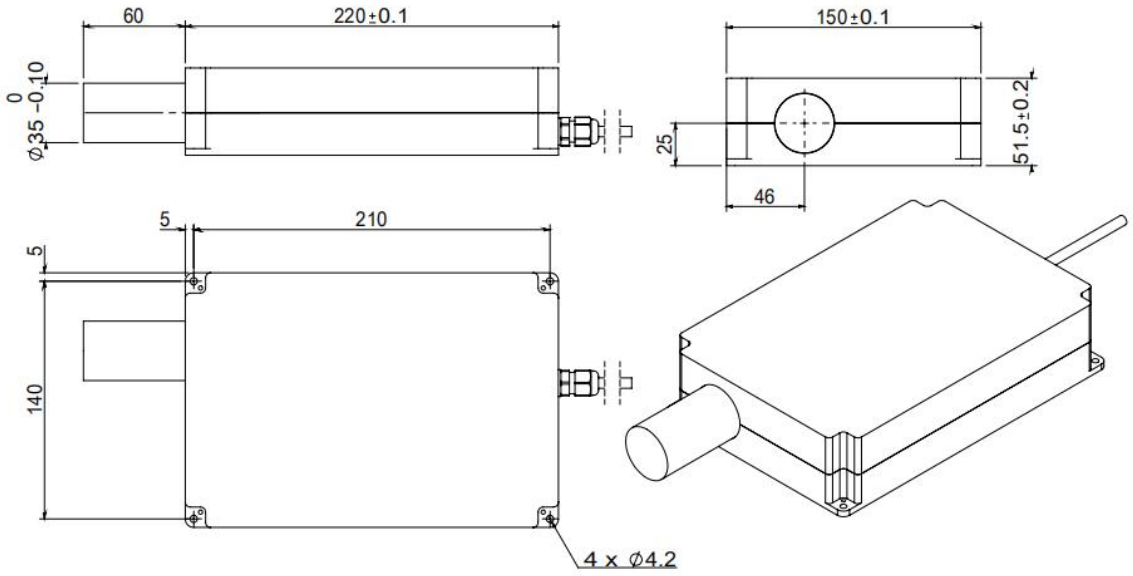



12ns
20ns
30ns
45ns
60ns
80ns
100ns
150ns
200ns
250ns
350ns
.....
/ns
0
50
100
150
200
250
300
350

7. Dimension



Laser dimension



Output head dimension