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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	2.0	mJ
4	Output Power	100	W
5	Power Turning Range	0-100	%
6	Frequency Turning Range	1-3000	kHz
7	Laser switching ON/OFF time	<20	μs
8	Pulse Width	2-500	ns
9	Output power stability	<5	%
10	Beam quality M ²	<1.65	/
11	Polarization direction	Random	/
12	Resist high reaction	Yes	/
13	Indicator red light	0.3-2	mW
14	Collimated beam diameter (4σ)	7 (10mm optional)	mm
15	Delivery cable length	3 (5m can be customized)	m



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2. Electrical characteristics

N	Characteristics	Parameter value	Unit
16	Power supply voltage	48	VDC
17	Working current	<8	A
18	Power consumption	<384	W
19	Recommended power supply	≥600	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	/



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4. Structural characteristics

N	Characteristics	Parameter value	Unit
23	Laser dimension	360*301*114	mm ³
24	Isolator dimension	246*42*42	mm ³
25	Net weight	<13	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	1(CW)	/	/	/
2	2	2800	3000	0.04
3	4	2200	3000	0.05
4	6	1450	3000	0.07
5	8	1100	3000	0.09
6	10	900	3000	0.11
7	20	430	2000	0.23
8	30	320	1000	0.31
9	40	260	1000	0.38
10	50	220	1000	0.45
11	60	190	1000	0.53
12	70	180	1000	0.56





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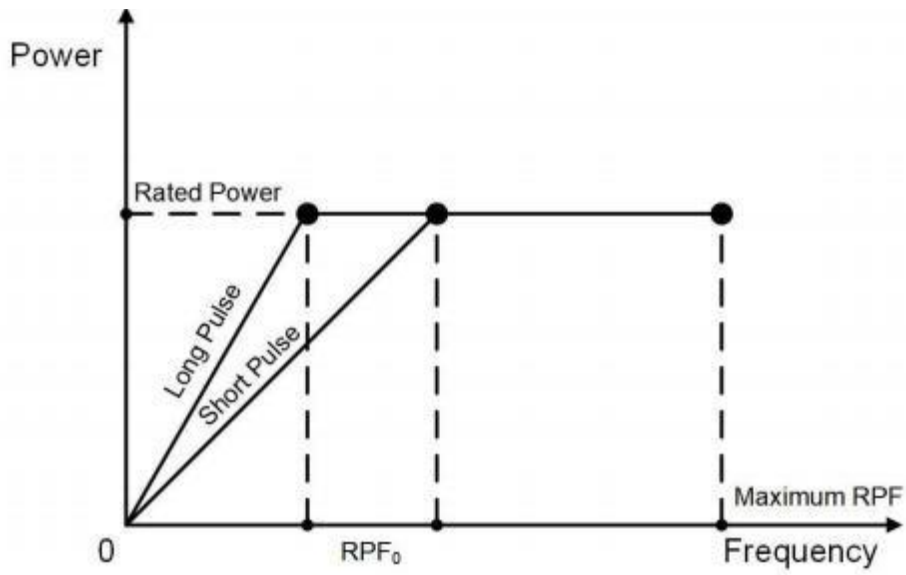
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13	80	170	1000	0.59
14	90	155	1000	0.65
15	100	130	400	0.77
16	150	85	400	1.18
17	200	80	400	1.25
18	250	70	400	1.43
19	350	65	400	1.54
20	450	50	400	2.00
21	500	50	400	2.00



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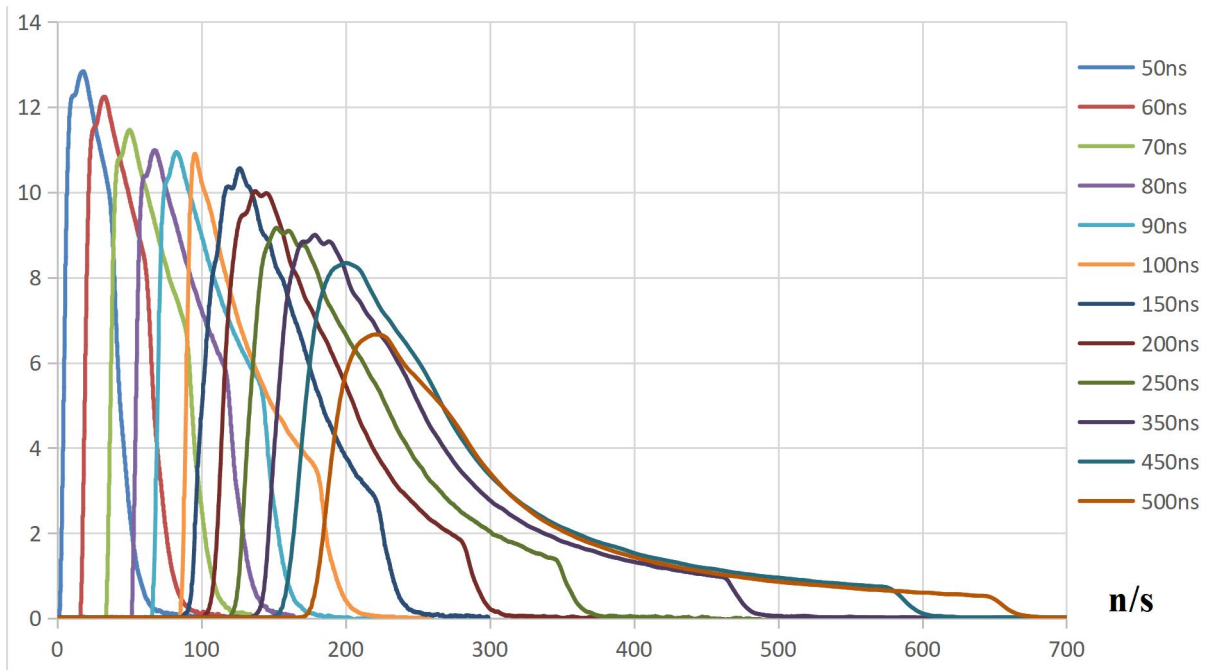
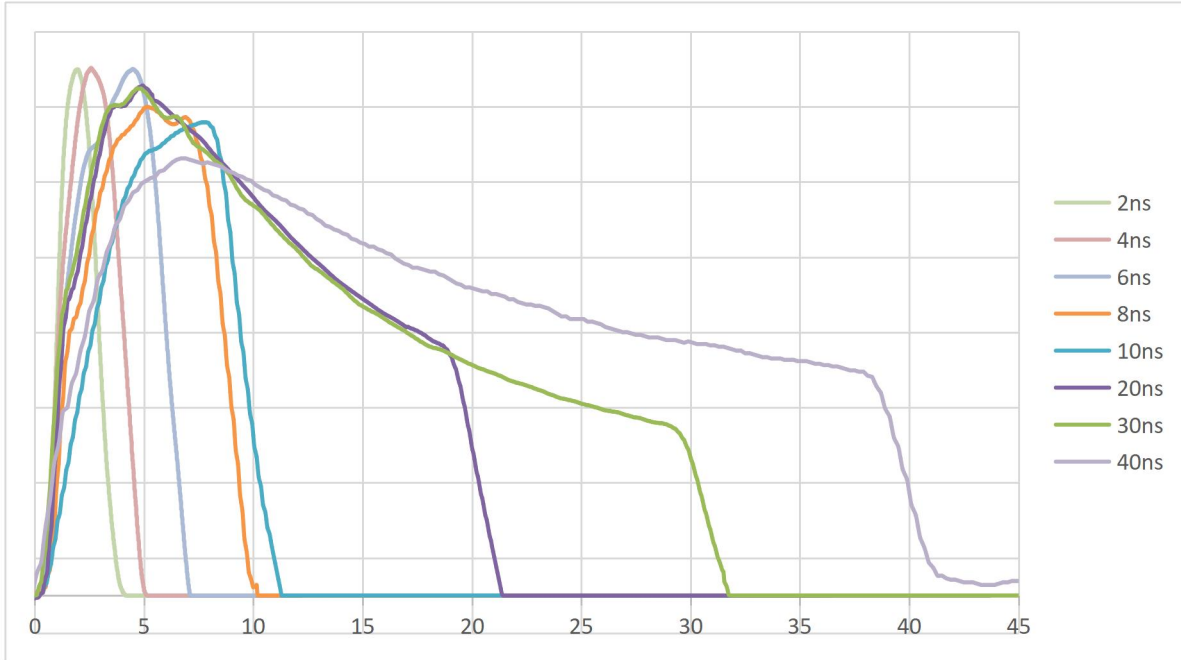


The definition of threshold frequency in the pulsed fiber laser





6. Pulse width waveform





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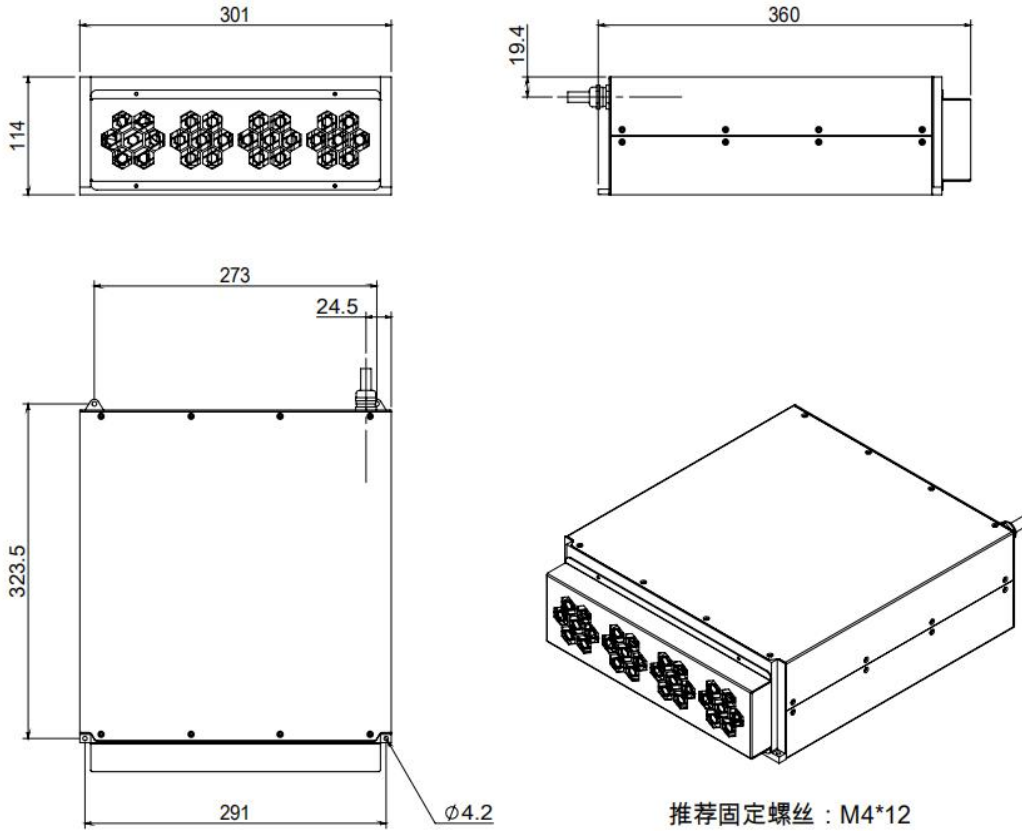
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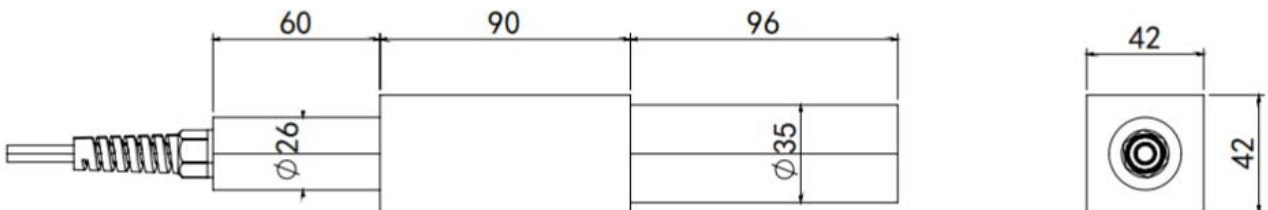
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7. Dimension



Laser dimension



Collimating Isolator Dimension



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