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	MOPA pulsed fiber laser	Date:	202402
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1. Optical characteristics

No.	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	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	2-500	ns
9	Output power instability	<5	%
10	Beam quality M ²	<1.6	/
11	Polarization direction	Random	/
12	Anti-high reflection	Yes	/
13	Indicator red light	0.3-2	mW
14	Collimated beam diameter (4σ)	6-8	mm
15	Delivery cable length	5	m



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2. Electrical characteristics

No.	Characteristics	Parameter value	Unit
16	Power supply	48	VDC
17	Working current	<16	A
18	Power consumption	<768	W
19	Recommended power supply	≥1000	W

3. Environmental requirements

No.	Characteristics	Parameter value	Unit
20	Operating temperature	0 - 40	°C
21	Storage temperature	- 10 - 60	°C
22	Cooling method	Air cooling	/

4. Structural characteristics

No.	Characteristics	Parameter value	Unit
23	Laser dimension	448*439*135	mm
24	Isolator dimension	258*Φ67(80*Φ35)	mm
25	Net weight	<30	kg



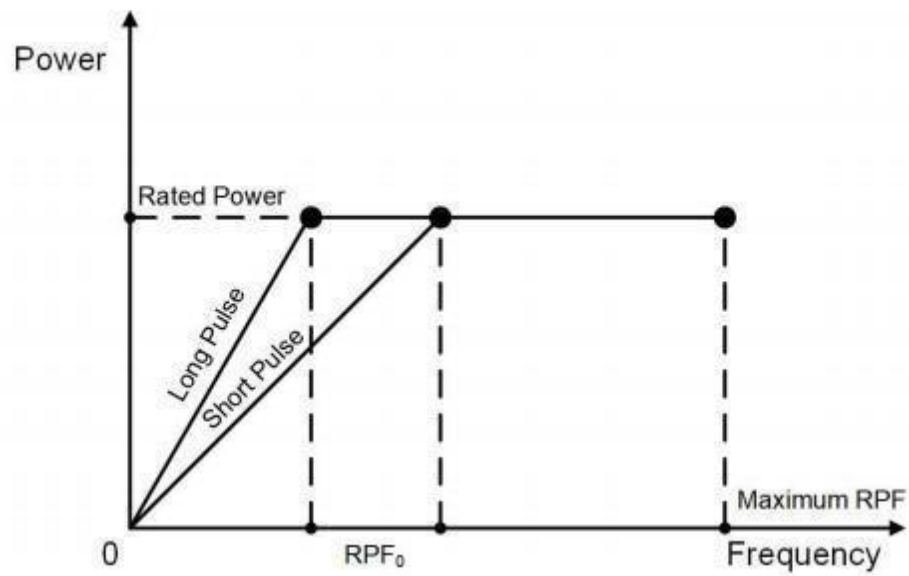
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5. The pulse width corresponds to the power reduction frequency point and the maximum single pulse energy

No.	Pulse width (ns)	Power reduction frequency (kHz)	Upper frequency limitation (kHz)	Max single pulse energy (mJ)
1	1 (CW)	/	/	/
2	2	2990	3000	0.03
3	4	2600	3000	0.04
4	6	1900	3000	0.05
5	8	1400	3000	0.07
6	10	2400	3000	0.08
7	20	1250	2000	0.16
8	30	900	2000	0.22
9	40	700	2000	0.29
10	50	600	1000	0.33
11	60	550	1000	0.36
12	70	490	1000	0.41
13	80	450	1000	0.44
14	90	430	1000	0.47
15	100	350	1000	0.57
16	150	200	400	1.00
17	200	170	400	1.18
18	250	150	400	1.33
19	350	130	400	1.54
20	450	100	400	2.00
21	500	100	400	2.00
2-8ns full power output 100W , 10-500ns full power output 200W				



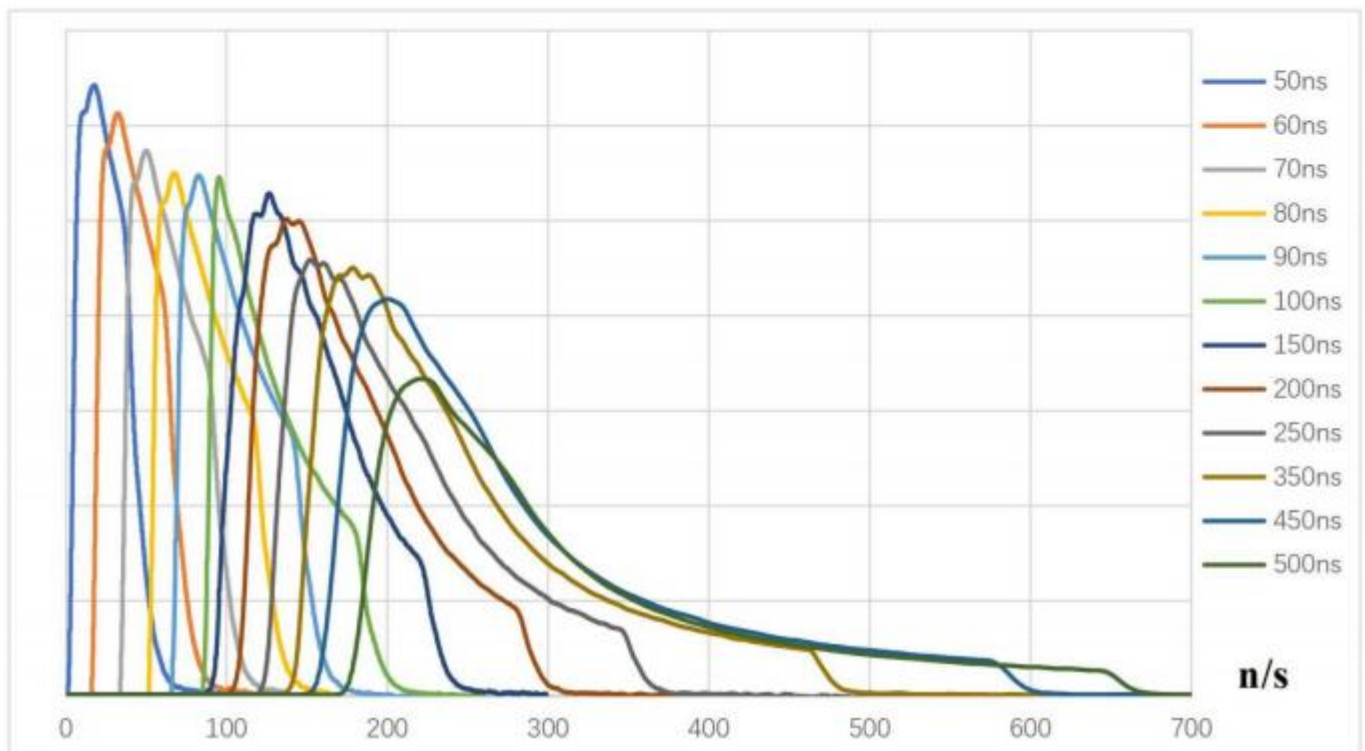
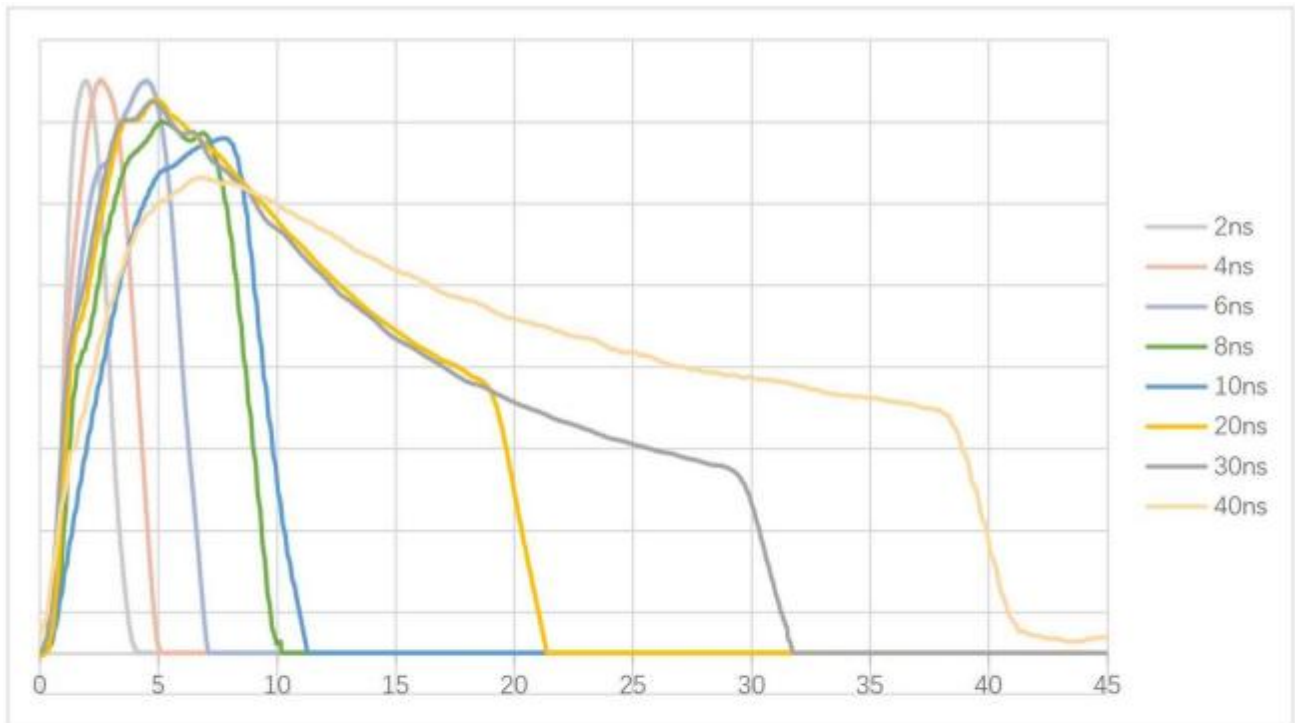
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The definition of threshold frequency in the pulsed fiber laser

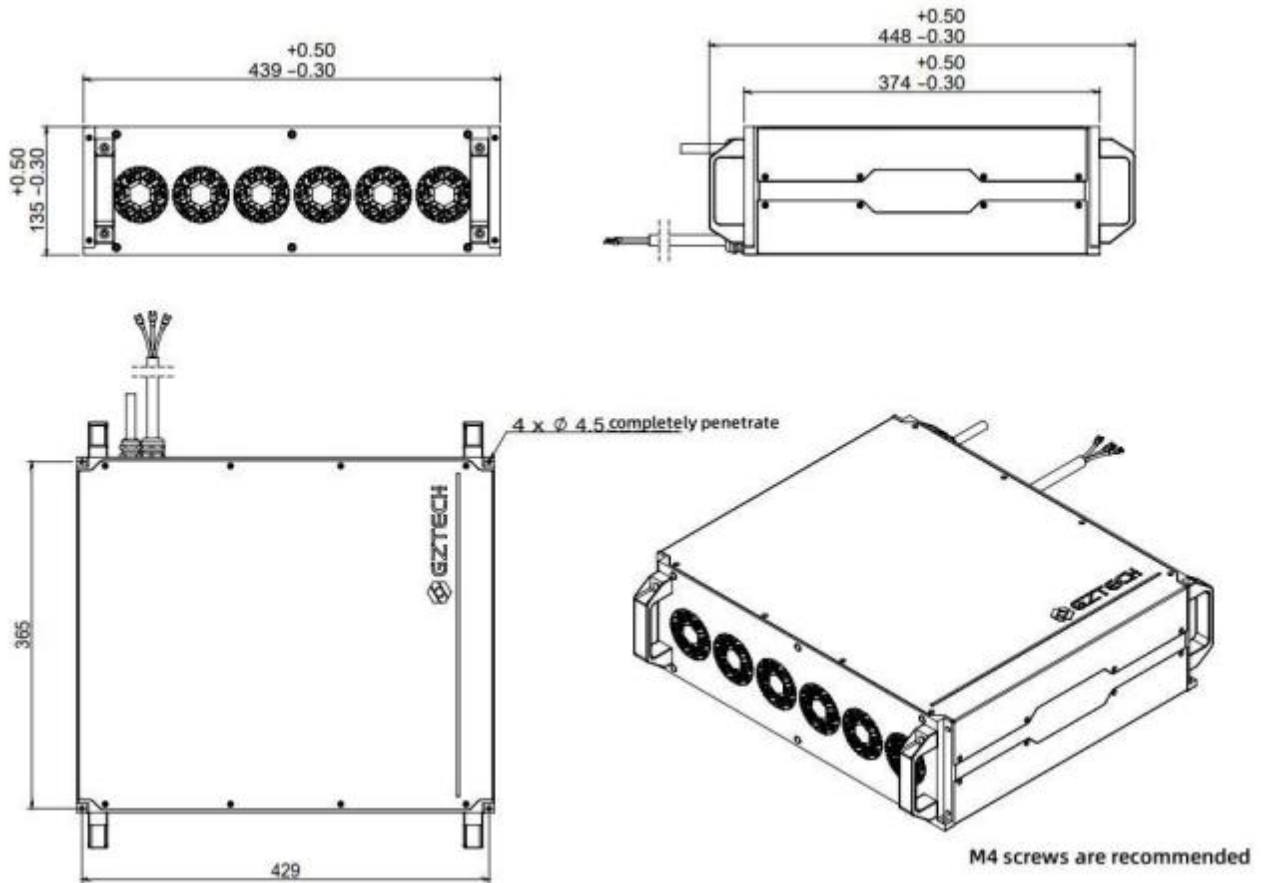
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6. Pulse width waveform

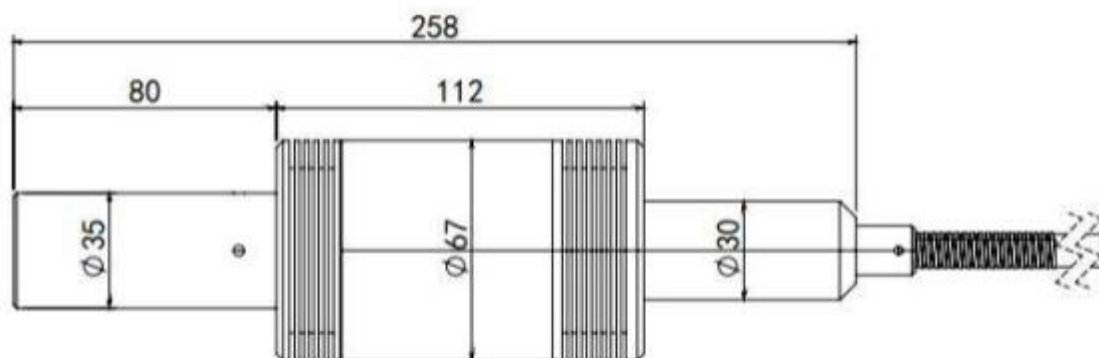


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7. Dimension



Laser source dimension



Isolator dimension

