
	Specifications MOPA pulsed fiber lasers Model: YFPN-100-GME-LR03071A	Revision:	V3.7
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1. Optical characteristics

N	Characteristics	Parameter value	Unit
1	Central wavelength	1060 - 1080	nm
2	Spectral width @3dB	< 15	nm
3	Maximum pulse energy	1.5	mJ
4	Output power	100	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	3	m



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2. Electrical characteristics

N	Characteristics	Parameter value	Unit
1	Power supply voltage	48	VDC
2	Working current	< 8	A
3	Power consumption	< 384	W
4	Recommended power supply	≥ 600	W


3. Environmental requirements

N	Characteristics	Parameter value	Unit
1	Operating temperature	0 - 40	°C
2	Storage temperature	-10 - 60	°C
3	Cooling method	Air cooling	/

4. Structural characteristics

N	Characteristics	Parameter value	Unit
1	Laser dimension	309.5*260*100	mm ³
2	Isolator dimension	246*42*42 (96*Φ35)	mm ³
3	Net weight	9.6	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 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
13	80	170	1000	0.59
14	90	155	1000	0.65

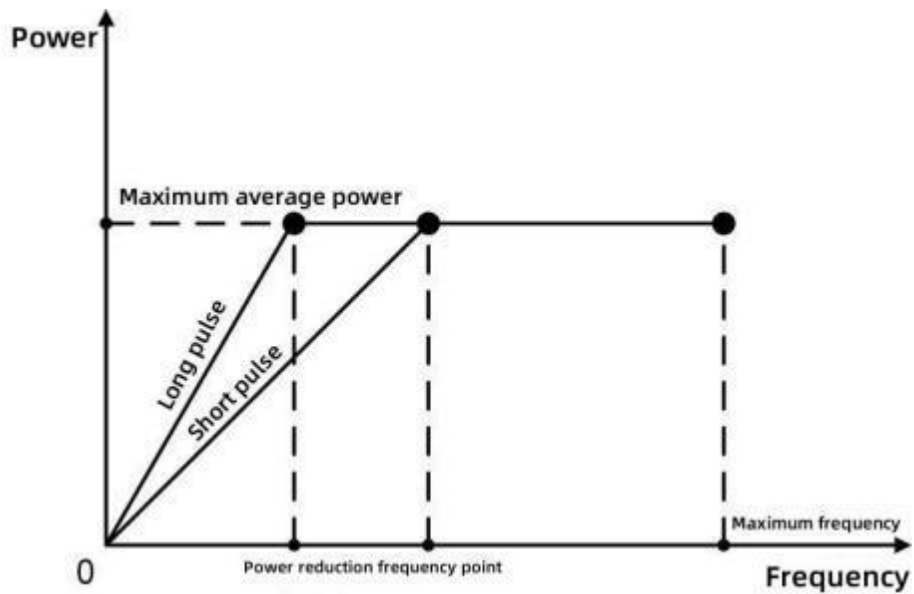




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15	100	130	400	0.77
16	150	85	400	1.18
17	200	80	400	1.25
18	250	70	400	1.43
19	350	65	400	1.54
20	450	65	400	1.54
21	500	65	400	1.54

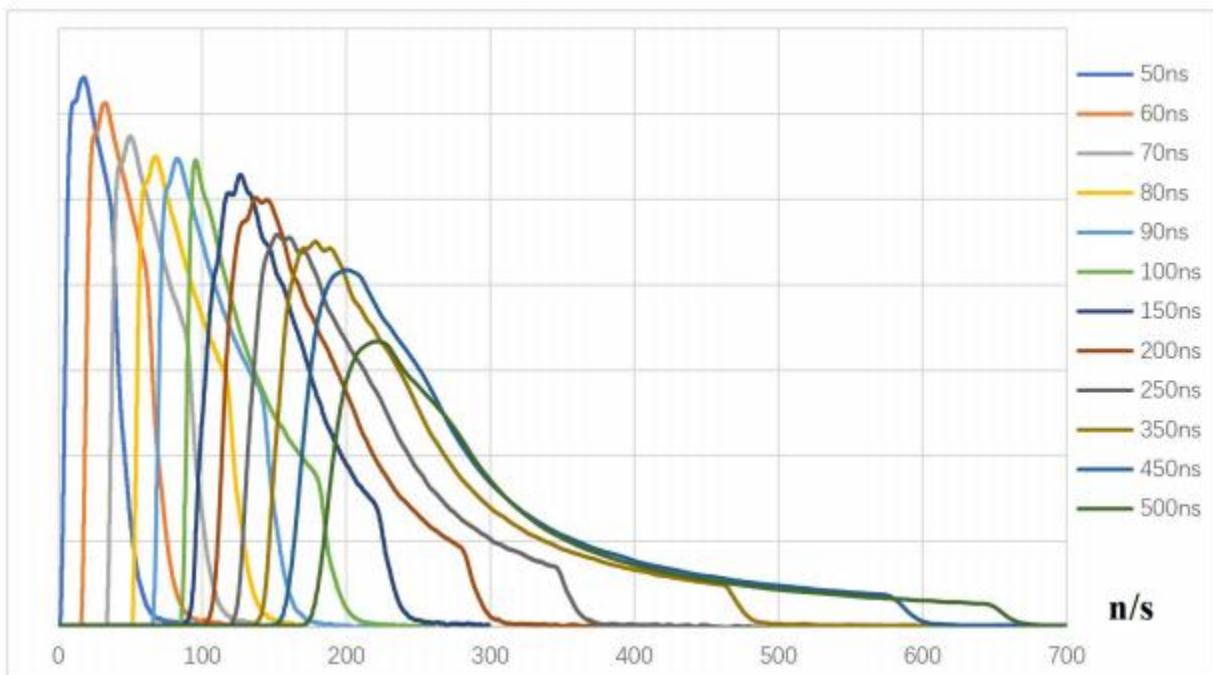
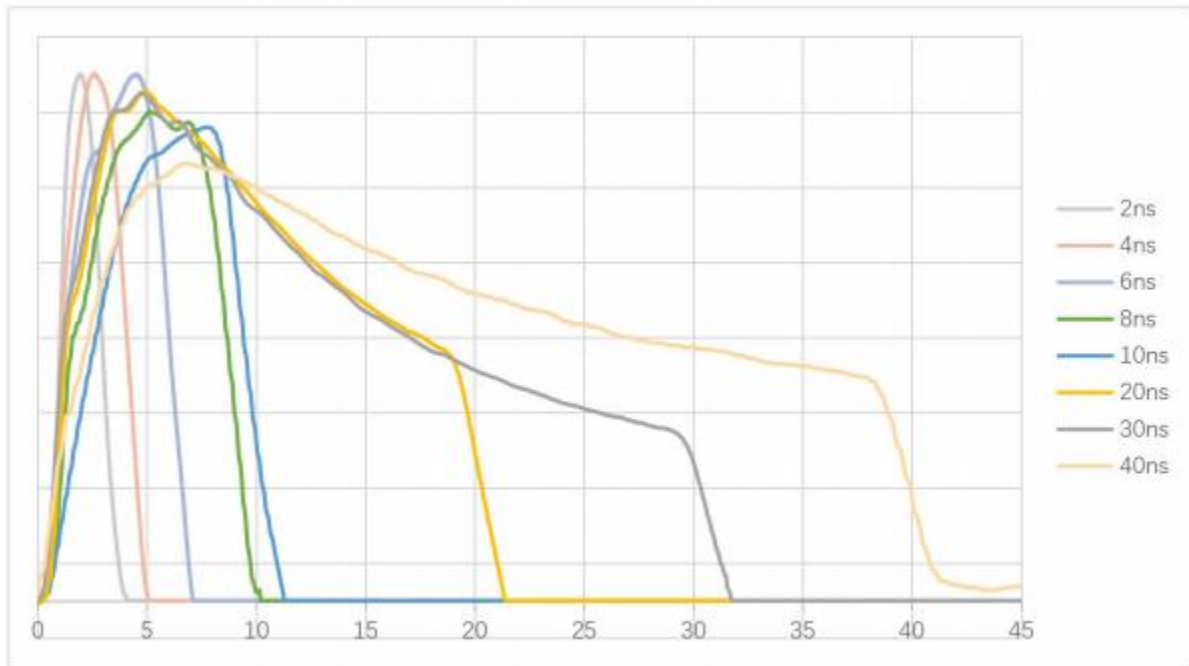



The relationship between laser output power and frequency



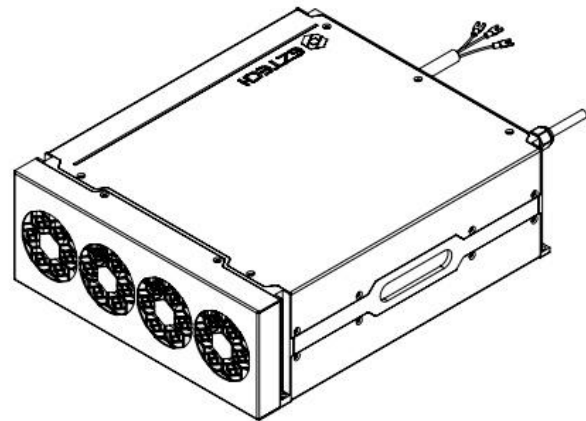
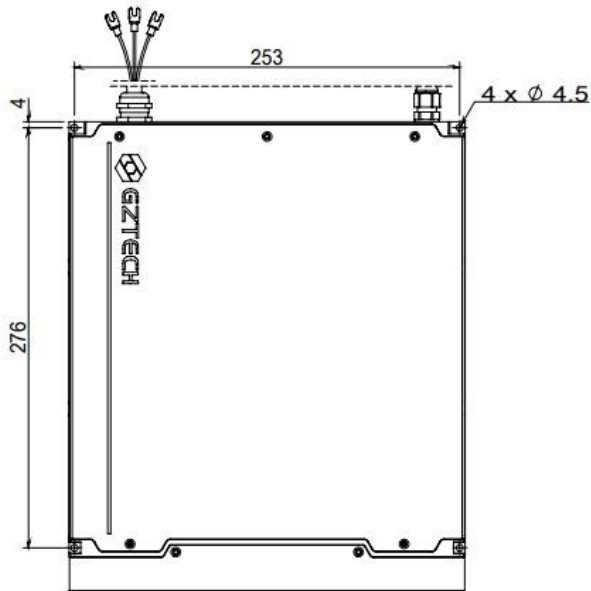
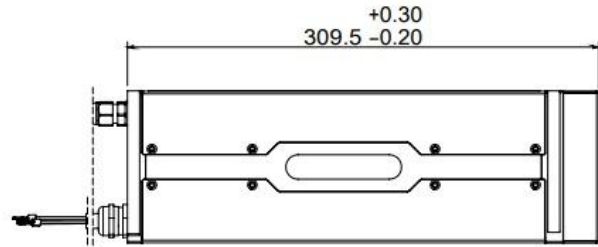
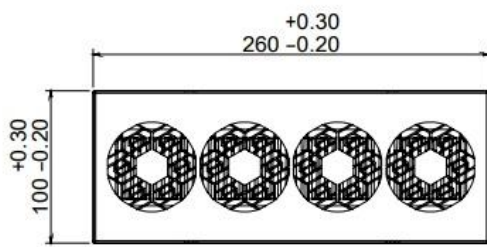


6. Pulse width waveform



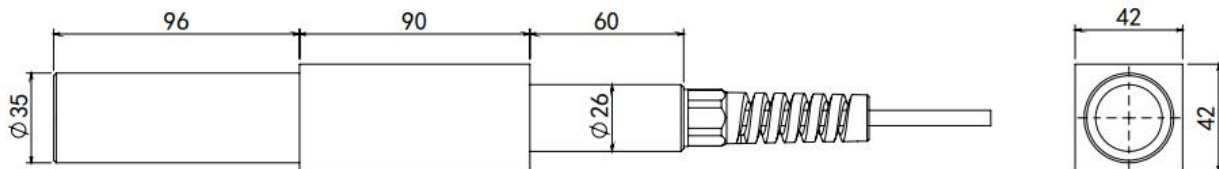
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7. Dimension



M4 screws are recommended

Laser dimension



Isolator dimension



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