

	Specifications	Revision:	V3.7
	MOPA pulsed fiber lasers	Date:	202407
	Model: YFPN-300-GM-LR05101A	Page:	1/7

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	300	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	20 - 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)	9 - 11	mm
15	Delivery cable length	5	m



	Specifications	Revision:	V3.7
	MOPA pulsed fiber lasers	Date:	202407
	Model: YFPN-300-GM-LR05101A	Page:	2/7

2. Electrical characteristics

N	Characteristics	Parameter value	Unit
1	Power supply voltage	48	VDC
2	Working current	< 24	A
3	Power consumption	< 1152	W
4	Recommended power supply	> 1500	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	374*439*135	mm ³
2	Isolator dimension	268*Φ67 (80*Φ35)	mm ³
3	Net weight	25.0	kg



	Specifications	Revision:	V3.7
	MOPA pulsed fiber lasers	Date:	202407
	Model: YFPN-300-GM-LR05101A	Page:	3/7

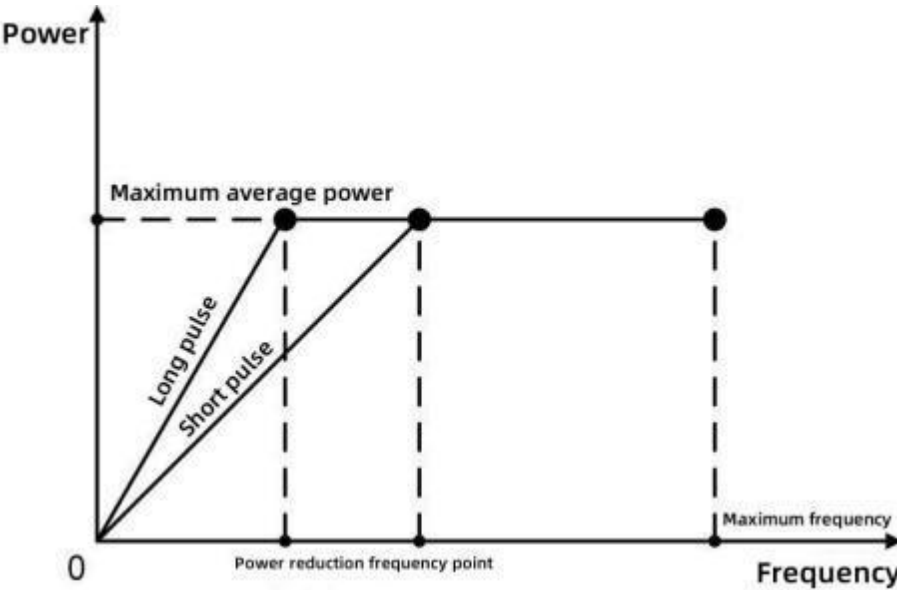
5. The pulse width corresponds to the power reduction frequency point and the maximum single pulse energy

No.	Pulse width (ns)	Power reduction frequency(kHz)	Upper frequency limit (kHz)	Max single pulse energy (mJ)
1	CW	/	/	/
2	20	2315	3000	0.13
3	30	1460	3000	0.21
4	40	1200	2000	0.25
5	50	1070	2000	0.28
6	60	940	2000	0.32
7	70	860	2000	0.35
8	80	770	2000	0.39
9	90	650	1000	0.46
10	100	600	1000	0.50
11	150	390	1000	0.77
12	200	275	1000	1.09
13	250	230	600	1.30
14	350	200	600	1.50



	Specifications	Revision:	V3.7
	MOPA pulsed fiber lasers	Date:	202407
	Model: YFPN-300-GM-LR05101A	Page:	4/7

15	450	150	600	2.00
16	500	150	500	2.00



The relationship between laser output power and frequency



Specifications

MOPA pulsed fiber lasers

Model: YFPN-300-GM-LR05101A

Revision:

V3.7

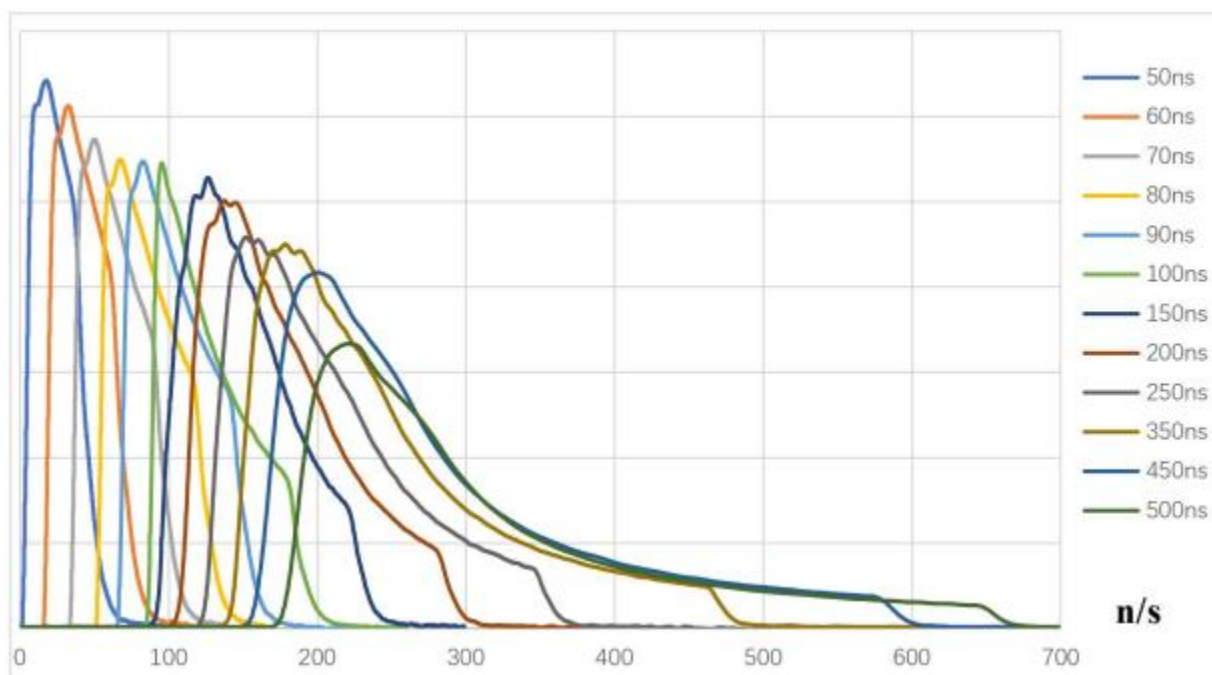
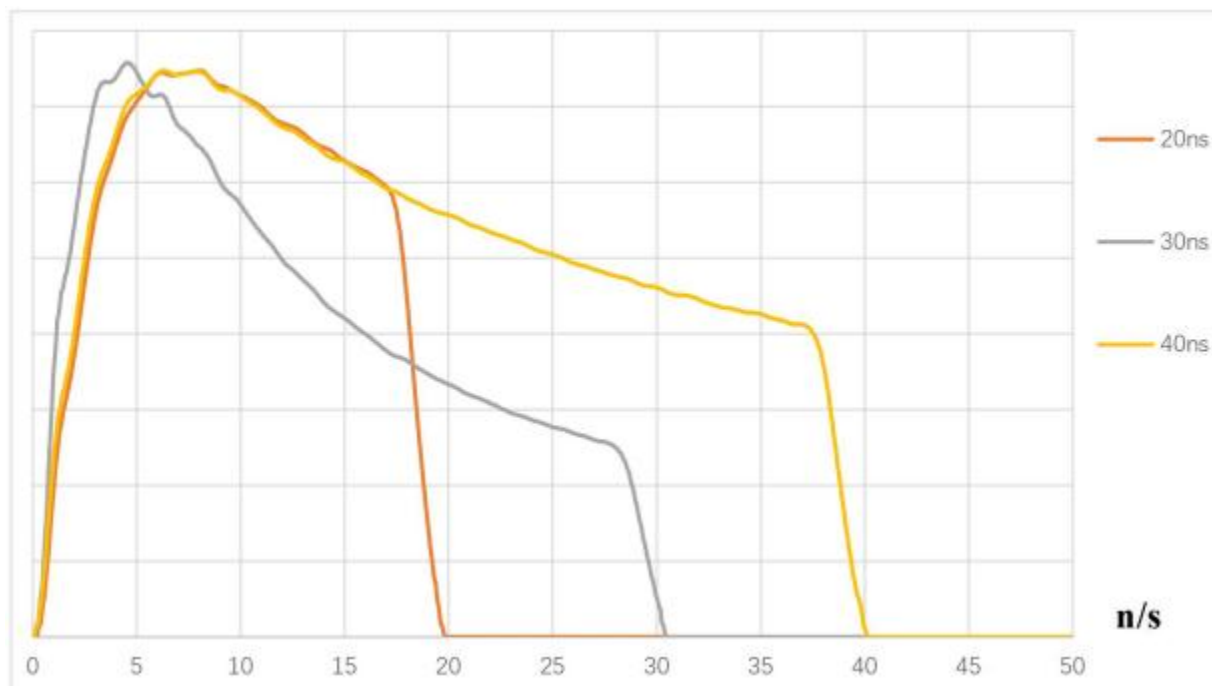
Date:

202407

Page:

5/7

6. Pulse width waveform

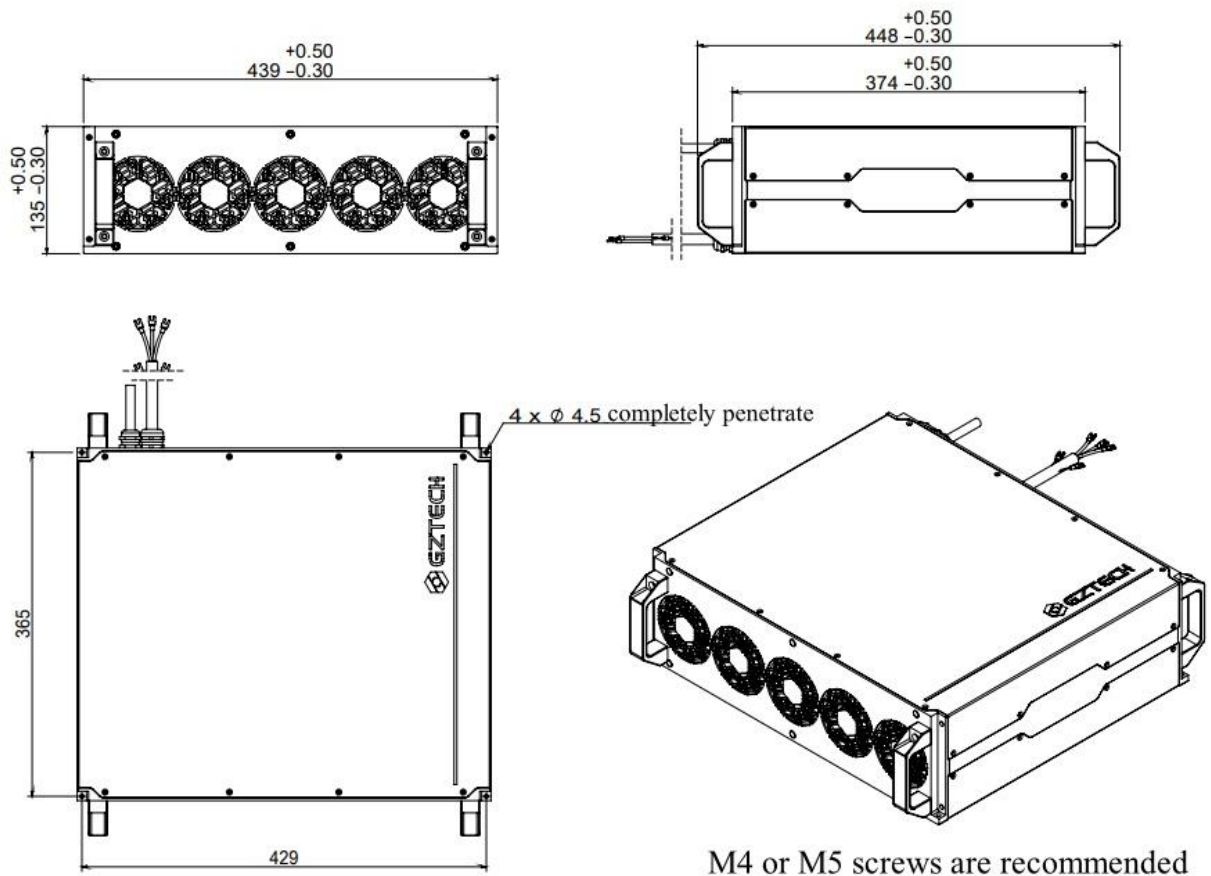


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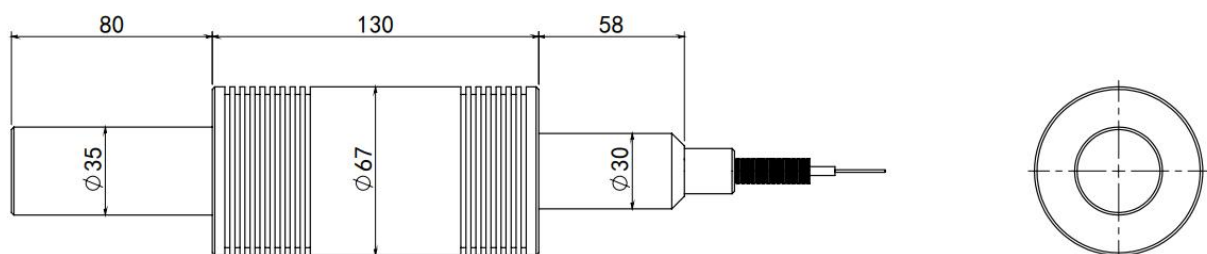
<https://en.gzlasertech.com/>

	Specifications	Revision:	V3.7
	MOPA pulsed fiber lasers	Date:	202407
	Model: YFPN-300-GM-LR05101A	Page:	6/7

7. Dimension



Laser dimension



Isolator dimension

