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	MOPA pulsed fiber lasers	Date:	202402
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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	80	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	24	VDC
2	Working current	< 14	A
3	Power consumption	< 336	W
4	Recommended power supply	> 350	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	320.3*280*80	mm ³
2	Isolator dimension	180*42*42 (86*Φ35)	mm ³
3	Net weight	9.3	kg



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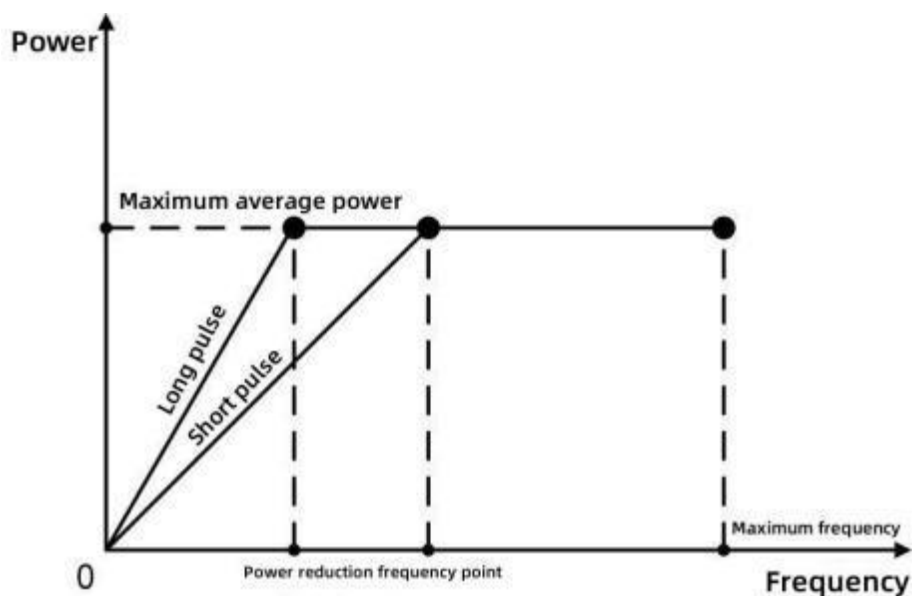
5. The pulse width corresponds to the power reduction frequency point and the maximum single pulse energy

No.	Pulse width (ns)	Power reduction frequency(kHz)	Upper frequency limit (kHz)	Max single pulse energy (mJ)
1	1 (CW)	/	/	/
2	2	1600	3000	0.05
3	4	1300	3000	0.06
4	6	740	3000	0.11
5	9	550	3000	0.15
6	12	400	3000	0.20
7	20	230	3000	0.35
8	30	170	3000	0.47
9	45	150	2000	0.53
10	60	115	2000	0.70
11	80	110	2000	0.73
12	100	100	1000	0.80
13	150	80	1000	1.00
14	200	66	1000	1.20
15	250	66	1000	1.20
16	350	66	600	1.20



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17	450	53	500	1.50
18	500	53	500	1.50



The relationship between laser output power and frequency





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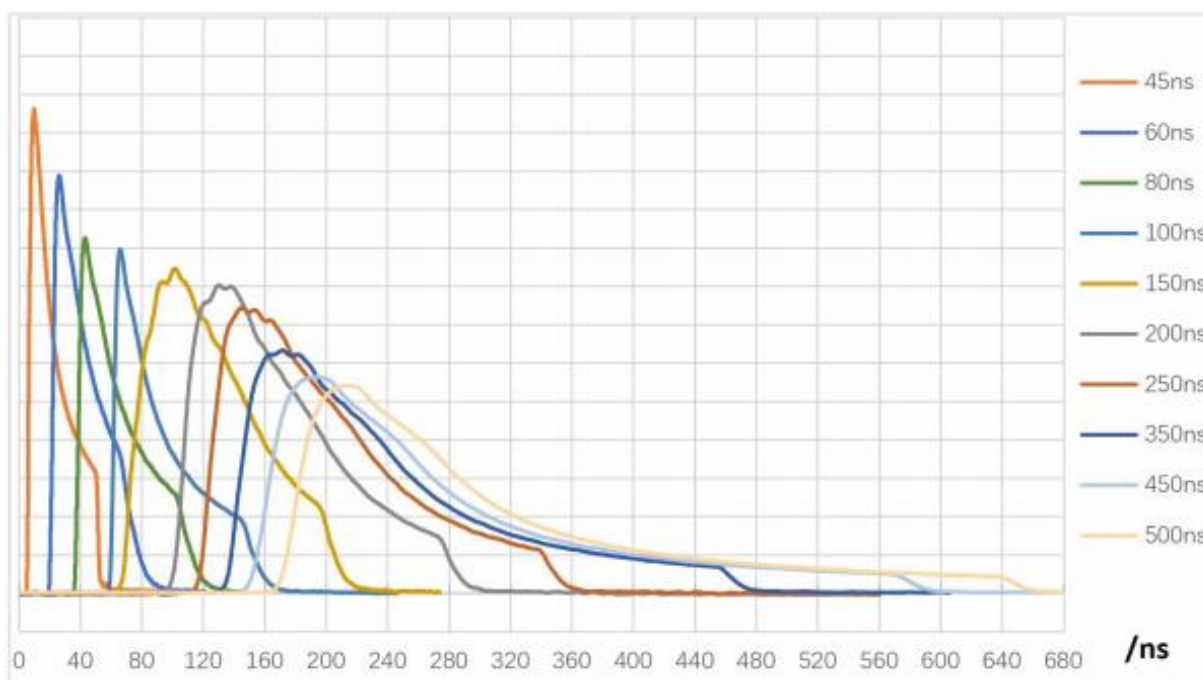
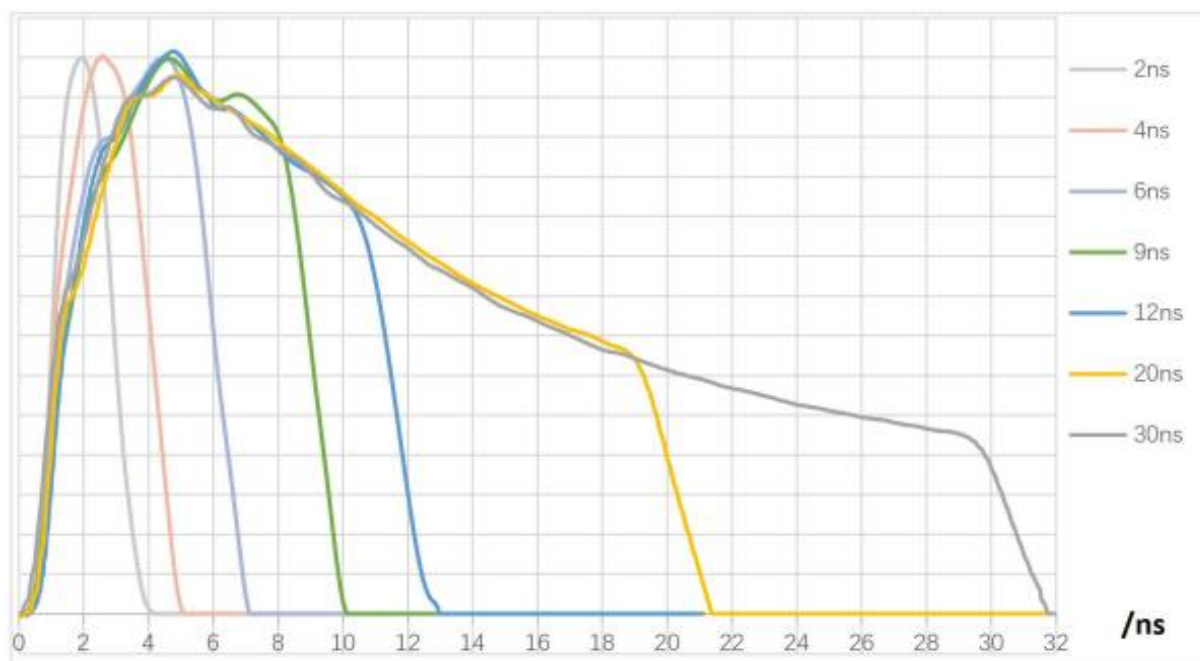
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6. Pulse width waveform

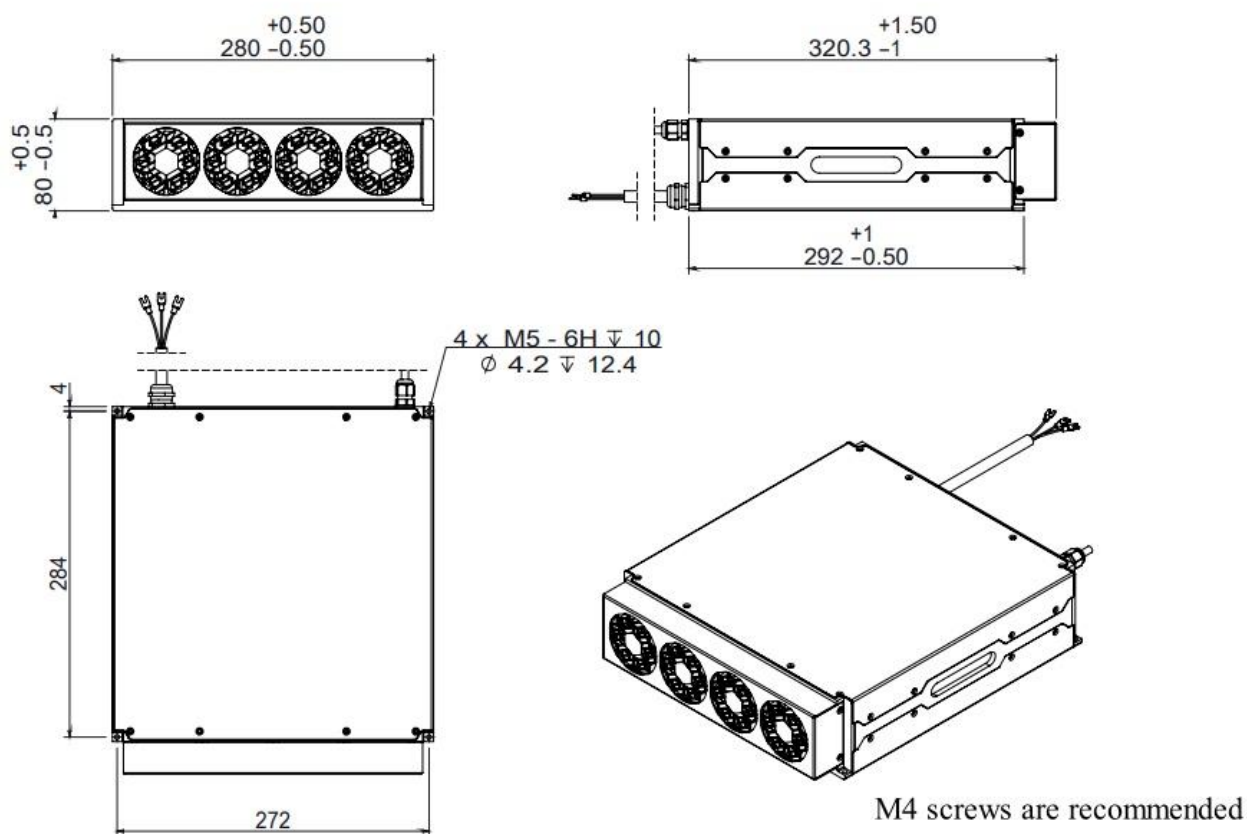


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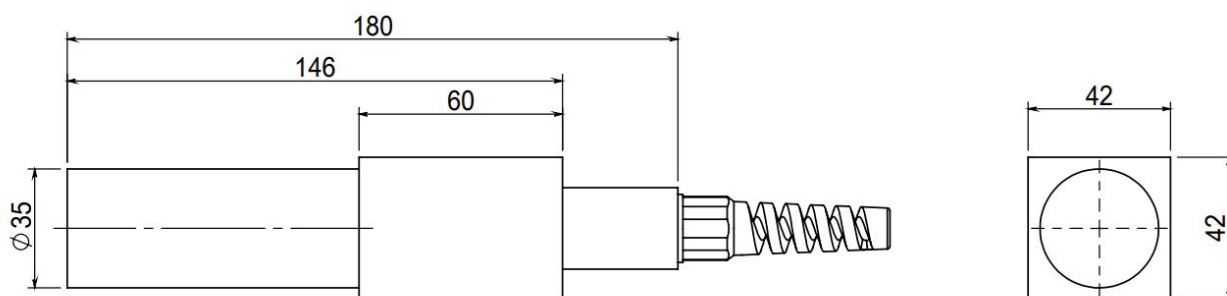
<https://en.gzlasertech.com/>

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7. Dimension



Laser dimension



Isolator dimension

