 GZTECH	Specifications MOPA pulsed fiber lasers Model: YFPP-30-GMX	Revision: V3.5 Date: 202207 Page: 1/5
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1. Optical characteristics

N	Characteristics	Parameter value	Unit
1	Center wavelength	1060-1080	nm
2	Spectral width @3dB	<15	nm
3	Maximum pulse energy	1.0	mJ
4	Output Power	30	W
5	Power tunable range	0-100	%
6	Frequency tunable range	1-3000	kHz
7	On/off light response time	<50	μs
8	Pulse Width	0.5-500	ns
9	Output power stability	<5	%
10	Beam quality M ²	<1.5	/
11	Polarization direction	Random	/
12	Resist high reaction	yes	/
13	Indicator red light	0.3-2	mW
14	Collimated Beam diameter (4σ)	7±1	mm



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 GZTECH	Specifications MOPA pulsed fiber lasers Model: YFPP-30-GMX	Revision:	V3.5
		Date:	202207
		Page:	2/5

15	Delivery cable length	1.5	m
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2. Electrical characteristics

N	Characteristics	Parameter value	Unit
16	Power supply voltage	24	VDC
17	Working current	<6	A
18	Power consumption	<144	W
19	Recommended power	≥150	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	/


4. Structural characteristics

N	Characteristics	Parameter value	Unit
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 GZTECH	Specifications MOPA pulsed fiber lasers Model: YFPP-30-GMX	Revision: V3.5 Date: 202207 Page: 3/5
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23	Laser dimension	298*220*83.4	mm ³
24	Isolator dimension	232*42*42	mm ³
25	Net weight	<8	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	2	450	3000	0.067
2	3	390	3000	0.077
3	4	300	3000	0.100
4	5	240	3000	0.125
5	6	210	3000	0.143
6	7	180	3000	0.167
7	8	165	3000	0.182
8	9	158	3000	0.190
9	10	143	3000	0.211



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 GZTECH	Specifications MOPA pulsed fiber lasers Model: YFPP-30-GMX	Revision: V3.5 Date: 202207 Page: 4/5
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10	12	132	3000	0.227
11	20	98	2000	0.308
12	30	90	2000	0.333
13	45	83	2000	0.364
14	60	68	2000	0.444
15	80	60	1000	0.500
16	100	54	1000	0.556
17	150	45	1000	0.667
18	200	38	1000	0.800
19	250	33	400	0.909
20	350	30	400	1.000
21	500	30	400	1.000
22	501	2400	3000	0.013
23	801	1250	3000	0.024

Note: 501 corresponds to the actual pulse width of 500ps, and 801 corresponds to the actual pulse width of 800ps.



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Specifications

MOPA pulsed fiber lasers

Model: YFPP-30-GMX

Revision:

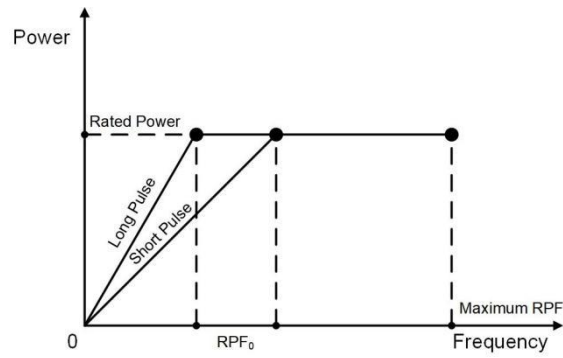
V3.5

Date:

202207

Page:

5/5




The definition of threshold frequency in the pulsed fiber laser



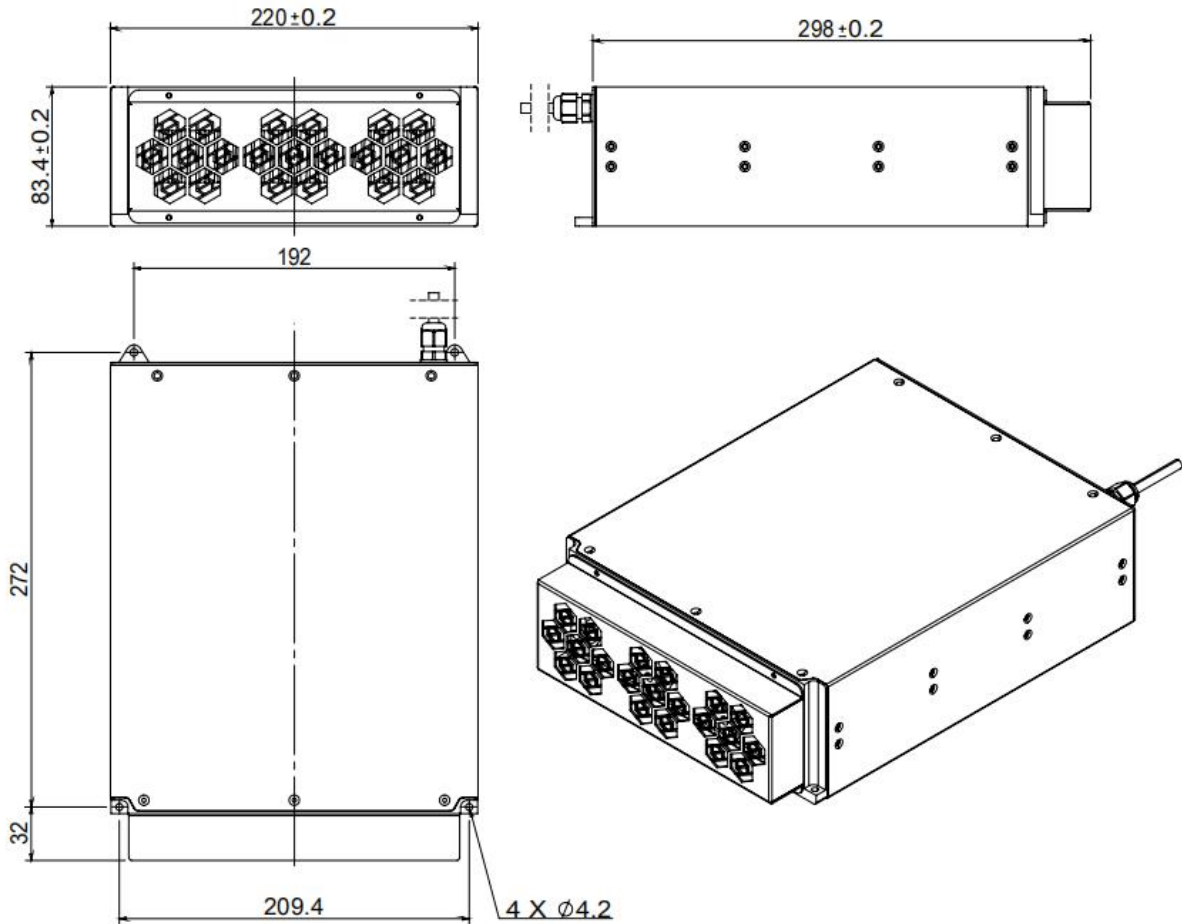
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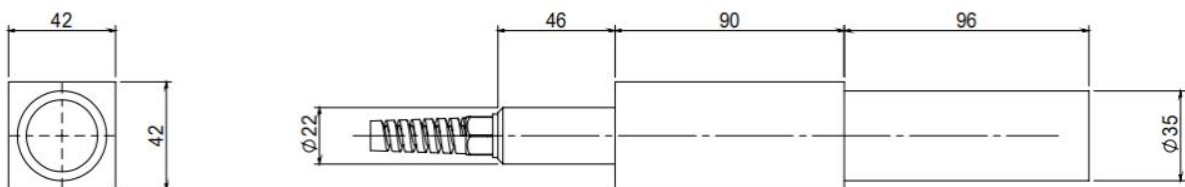
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 GZTECH	Specifications	Revision:	V3.5
	MOPA pulsed fiber lasers	Date:	202207
	Model: YFPP-30-GMX	Page:	6/5

6. Dimension



Laser dimension



Collimating Isolator Dimensions



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