
 <b>GZTECH</b>	<b>Specifications</b> MOPA pulsed green fiber lasers Model: YFPN-40-GR-030700H	Revision: V 1.1 Date: 2024/7 Page: 1/3
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## 1. Optical characteristics

N	Characteristics	Parameter value	Unit
1	Central wavelength	532	nm
2	Spectral width @3dB	<1	nm
3	Maximum single pulse energy	10	mJ
4	Maximum peak power	10	kW
5	Output Power	40@400kHz	W
6	Power Turning Range	0-100	%
7	Frequency Turning Range	10-1000	kHz
8	Laser switching ON/OFF time	< 10	μs
9	Pulse Width	2-5	ns
10	Output power stability	< 5	%
11	Number of pulses in the pulse packet	2-8	/
12	Beam quality M <sup>2</sup>	< 1.2	/
13	Spot ellipticity	>90	%
14	Polarization direction	Linear polarization	/
15	Resist high reaction	Yes	/



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16	Collimated beam diameter (4σ)	$7 \pm 0.5$	mm
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## 2. Electrical characteristics

N	Characteristics	Parameter value	Unit
18	Power supply voltage	48	VDC
19	Working current	$< 5$	A
20	Power consumption	$< 240$	W
21	Recommended power supply	$\geq 300$	W

## 3. Environmental requirements

N	Characteristics	Parameter value	Unit
22	Operating temperature	0~40	°C
23	Storage temperature	-10~60	°C
24	Cooling Method	Water cooling	/
25	Water cooling temperature	$25 \pm 3$	°C
26	Water cooler flow	$> 4$	L/min
27	Water pipe diameter	10	mm



	Specifications	Revision:	V 1.1
	MOPA pulsed green fiber lasers	Date:	2024/7
	Model: YFPN-40-GR-030700H	Page:	3/3

28	Chiller cooling capacity	$\geq 300$	W
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#### 4. Structural characteristics

N	Characteristics	Parameter value	Unit
29	Laser dimension	536*350*114	mm <sup>3</sup>
30	Packing size	730*500*170	mm <sup>3</sup>
31	Net weight	<25	kg

#### 5. Dimension

##### Laser dimension

