

	Specifications	Revision:	V3.7
	MOPA pulsed fiber laser	Date:	202312
	Model: YFPN-750-GM-LR05101W	Page:	1/5

1. Optical characteristics

No.	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	750	W
5	Power adjustment range	0-100	%
6	Frequency adjustment range	1-6000	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	<1.8	/
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 laser	Date:	202312
	Model: YFPN-750-GM-LR05101W	Page:	2/5

2. Electrical characteristics

No.	Characteristics	Parameter value	Unit
16	Power supply voltage	220	VAC
17	Working current	<12	A
18	Power consumption	<2640	W
19	220V mains current requirement	≥ 16	A

3. Environmental requirements

No.	Characteristics	Parameter value	Unit
20	Operating temperature	0 - 40	°C
21	Storage temperature	-10 - 60	°C
22	Cooling method	Water cooling	/
23	Low temperature water temperature (laser)	28 ± 1	°C
24	High temperature water temperature (isolator)	30 ± 1	°C
25	Water cooler flow rate (laser)	≥ 8	L/min
26	Water cooler flow rate (isolator)	≥ 2	L/min



 GZTECH	Specifications		Revision:	V3.7
	MOPA pulsed fiber laser		Date:	202312
	Model: YFPN-750-GM-LR05101W		Page:	3/5
27	Laser water pipe diameter	12	mm	
28	Isolator water pipe diameter	6	mm	
29	Water cooler cooling capacity	>2	kW	

4. Structural characteristics

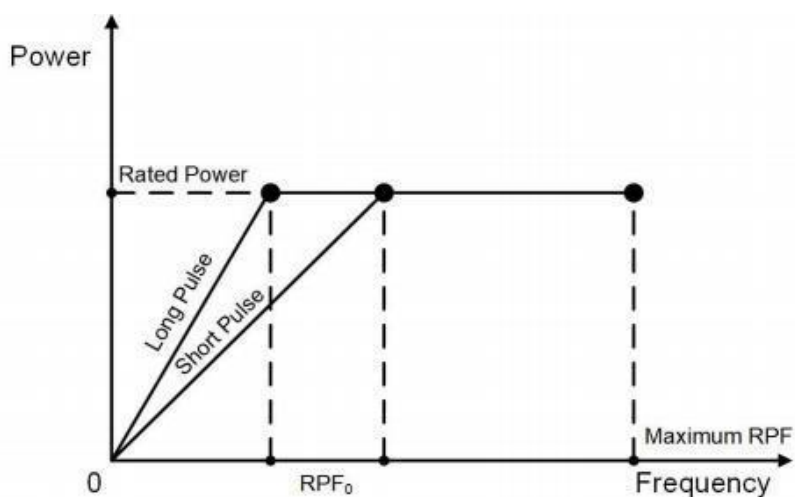
No.	Characteristics	Parameter value	Unit
30	Laser dimension	692*485*130	mm
31	Isolator dimension	286*60*70(87*Φ35)	mm
32	Net weight	<45	kg

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	20	4200	6000	0.18
3	30	3000	6000	0.25
4	40	2400	5000	0.31
5	50	2300	5000	0.33
6	60	2100	4000	0.36



 GZTECH		Specifications MOPA pulsed fiber laser Model: YFPN-750-GM-LR05101W		Revision: V3.7 Date: 202312 Page: 4/5
7	80	1650	4000	0.45
8	90	1500	3000	0.50
9	100	1200	3000	0.63
10	120	1100	2000	0.68
11	150	950	2000	0.79
12	200	700	1000	1.07
13	250	600	1000	1.25
14	350	500	1000	1.50
15	450	375	800	2.00
16	500	375	800	2.00



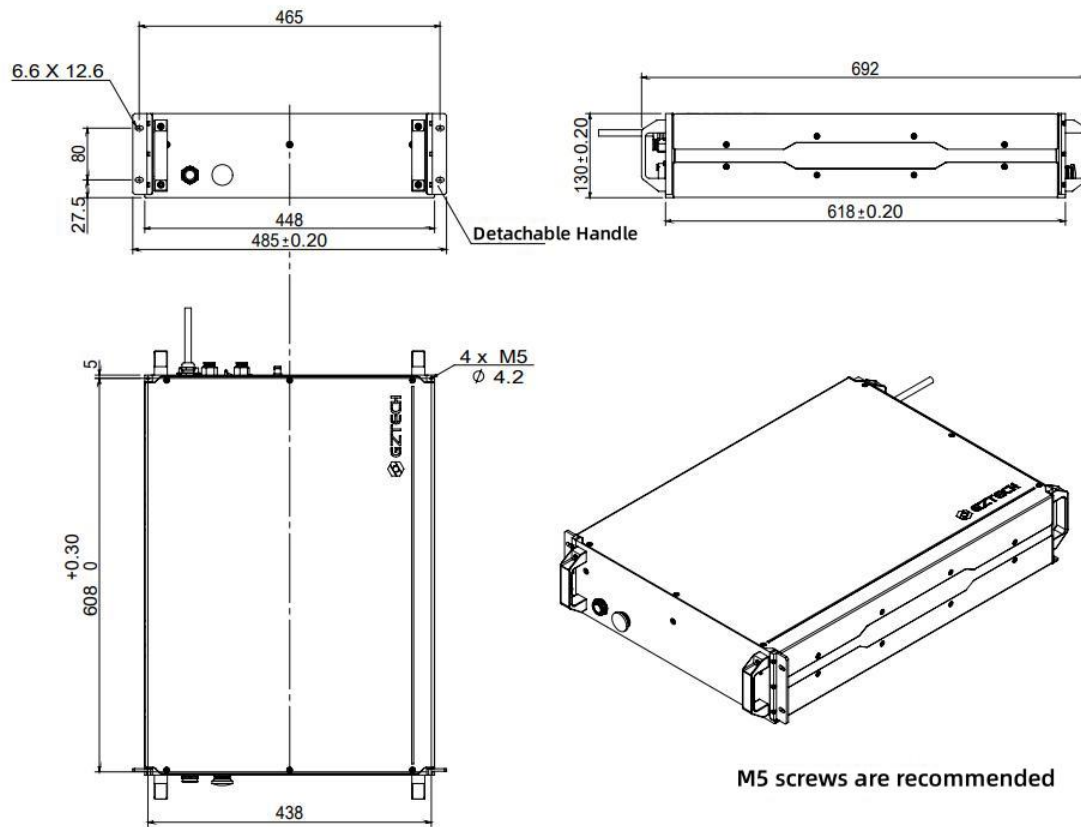
The definition of threshold frequency in the pulsed fiber laser



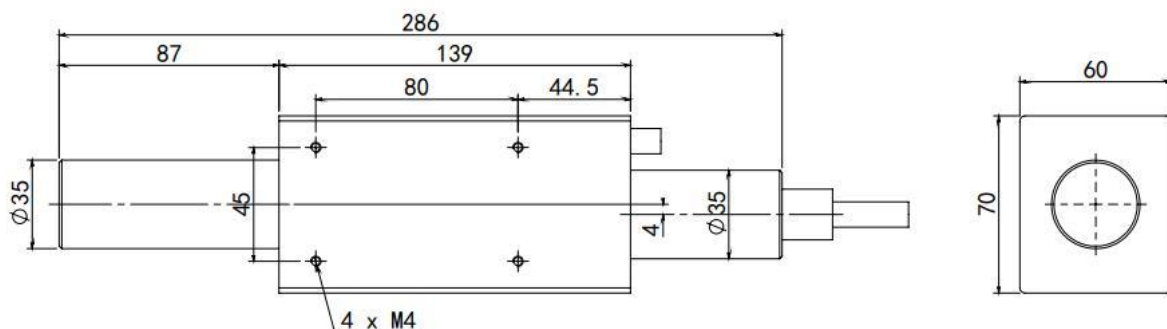
A leading supplier of advanced lasers for precision manufacturing
<https://en.gzlasertech.com/>

 GZTECH	Specifications		Revision:	V3.7
	MOPA pulsed fiber laser		Date:	202312
	Model: YFPN-750-GM-LR05101W		Page:	5/5

6. Dimension



Laser dimension



Isolator dimension



A leading supplier of advanced lasers for precision manufacturing
<https://en.gzlasertech.com/>