
	Specifications	Revision:	V3.6
	MOPA pulsed fiber lasers	Date:	202304
	Model: YFPN-750-GMC-H12R1000HW	Page:	1/5

1. Optical characteristics

N	Characteristics	Parameter value	Unit
1	Central wavelength	1060-1080	nm
2	Spectral width @3dB	<30	nm
3	Maximum pulse energy	12.0	mJ
4	Output Power	750	W
5	Power Turning Range	0-100	%
6	Frequency Turning Range	1-1000	kHz
7	Laser switching ON/OFF time	<100	μs
8	Pulse Width	30-500	ns
9	Output power stability	<5	%
10	BPP	<5	mm mrad
11	Polarization direction	Random	/
12	Resist high reaction	Yes	/
13	Indicator red light	0.3-2	mW
14	Output method	QBH	/
15	Delivery cable length	10	m



	Specifications	Revision:	V3.6
	MOPA pulsed fiber lasers	Date:	202304
	Model: YFPN-750-GMC-H12R1000HW	Page:	2/5


2. Electrical characteristics

N	Characteristics	Parameter value	Unit
16	Power supply voltage	220	VAC
17	Working current	<12	A
18	Power consumption	<2640	W
19	220V mains current demand	≥16	A

3. Environmental requirements

N	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 (QBH)	30±1	°C
25	Water chiller flow rate (chassis)	10-20	L/min
26	Water chiller flow rate (QBH)	1-3	L/min



	Specifications	Revision:	V3.6
	MOPA pulsed fiber lasers	Date:	202304
	Model: YFPN-750-GMC-H12R1000HW	Page:	3/5

27	Chassis water pipe diameter	12	mm
28	QBH water pipe diameter	6	mm
29	Water chiller cooling capacity	>2	kW


4. Structural characteristics

N	Characteristics	Parameter value	Unit
30	Laser dimension	728*438*160	mm ³
31	Isolator dimension	QBH standard parts	See below
32	QBH divergence angle (full angle)	<200	mrad
33	Net weight	<60	kg

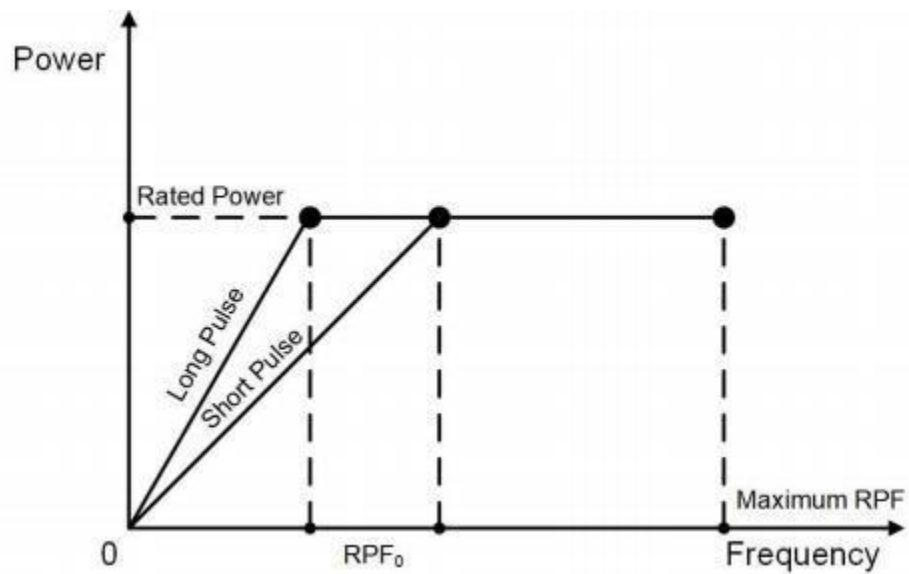
5. The pulse width corresponds to the power reduction frequency point and the maximum single pulse energy

N	Pulse width (ns)	Power reduction frequency (kHz)	Upper frequency limit (kHz)	Max single pulse energy (mJ)
1	30	450	1000	1.67
2	60	225	1000	3.33
3	80	180	1000	4.17
4	100	120	1000	6.25



	Specifications		Revision:	V3.6
	MOPA pulsed fiber lasers		Date:	202304
	Model: YFPN-750-GMC-H12R1000HW		Page:	4/5

5	150	90	1000	8.33
6	200	83	1000	9.00
7	300	75	400	10.00
8	400	75	400	10.00
9	500	63	400	12.00



The definition of threshold frequency in the pulsed fiber laser

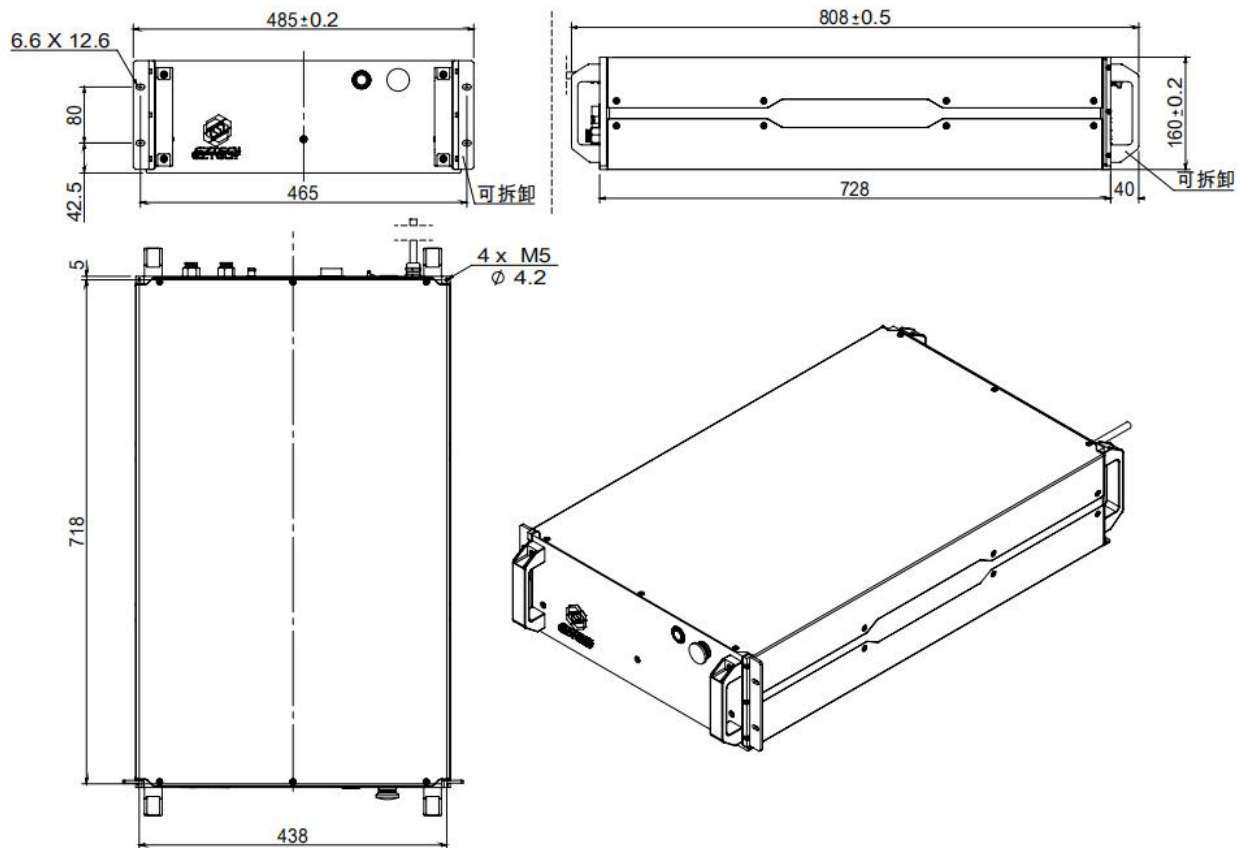




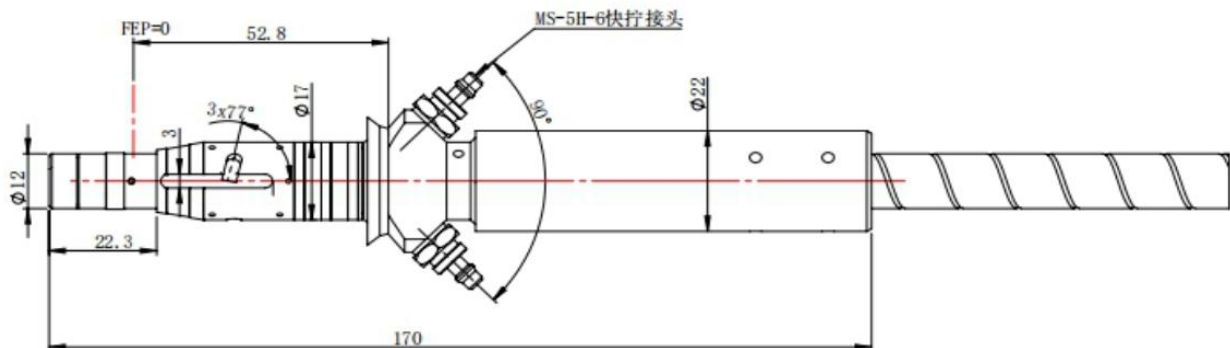
Specifications
MOPA pulsed fiber lasers
Model: YFPN-750-GMC-H12R1000HW

Revision: V3.6
Date: 202304
Page: 5/5

6. Dimension



Laser dimension



QBH dimension



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