1. Optical characteristics

No.	Characteristics	Parameter value	Unit
1	Central wavelength	1060 - 1080	nm
2	Spectral width @3dB	< 30	nm
3	Maximum pulse energy	15	mJ
4	Output power	2000	W
5	Power adjustment range	0 - 100	%
6	Frequency adjustment range	1 - 1000	kHz
7	Laser switching ON/OFF time	< 200	μs
8	Pulse width	30 - 500	ns
9	Output power instability	< 5	%
10	BPP	< 4 (round)	mm mrad
11	Polarization direction	Random	/
12	Anti-high reflection	Yes	/
13	Indicator red light	0.3 - 2	mW
14	Output method	QBH	/
15	QBH divergence angle (full angle)	< 200	mrad
16	Delivery cable length	10	m

2. Electrical characteristics

No.	Characteristics	Parameter value	Unit
1	Power supply voltage	380	VAC
2	Working current	< 10	A
3	Power consumption	< 6500	W

3. Environmental requirements

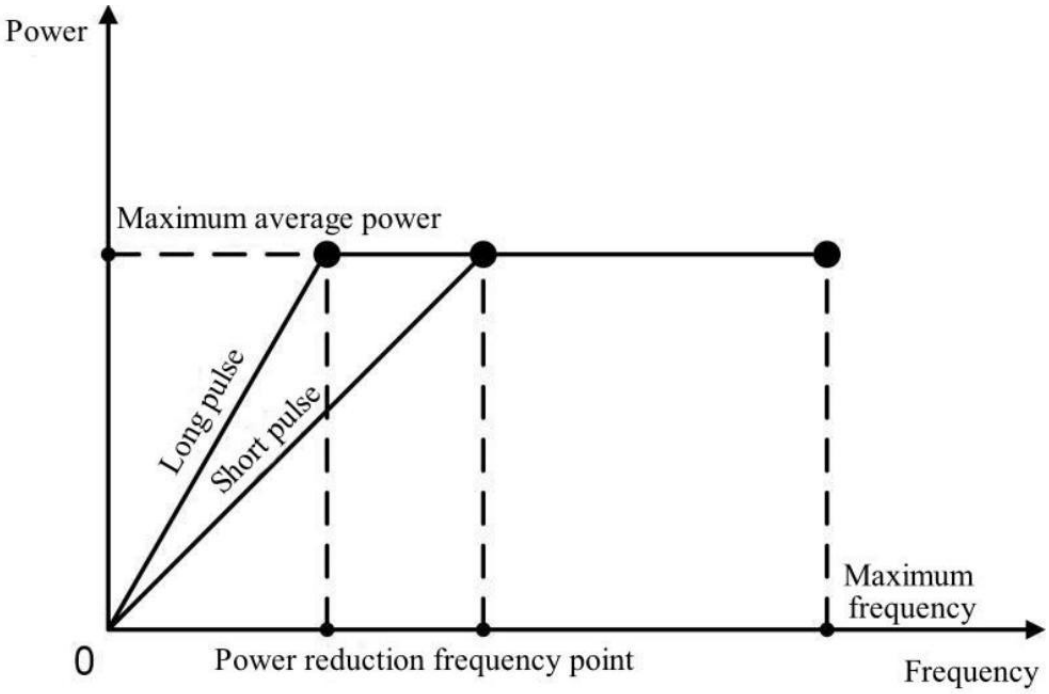
No.	Characteristics	Parameter value	Unit
1	Operating temperature	0 - 40	℃
2	Storage temperature	-10 - 60	℃
3	Cooling method	Water cooling	/
4	Low temperature water temperature (laser)	28 ± 1	℃
5	High temperature water temperature (QBH)	30 ± 1	℃
6	Chiller flow rate (chassis)	10 - 15	L/min
7	Chiller flow rate (QBH)	1 - 3	L/min
8	Water pipe diameter (chassis)	12	mm
9	Water pipe diameter (QBH)	6	mm
10	Cooling capacity	> 5	kW

4. Structural characteristics

No.	Characteristics	Parameter value	Unit
1	Laser dimension	728*485*145	mm^3
2	Output head dimension	QBH standard parts	As shown in the figure below
3	Net weight	< 60	kg

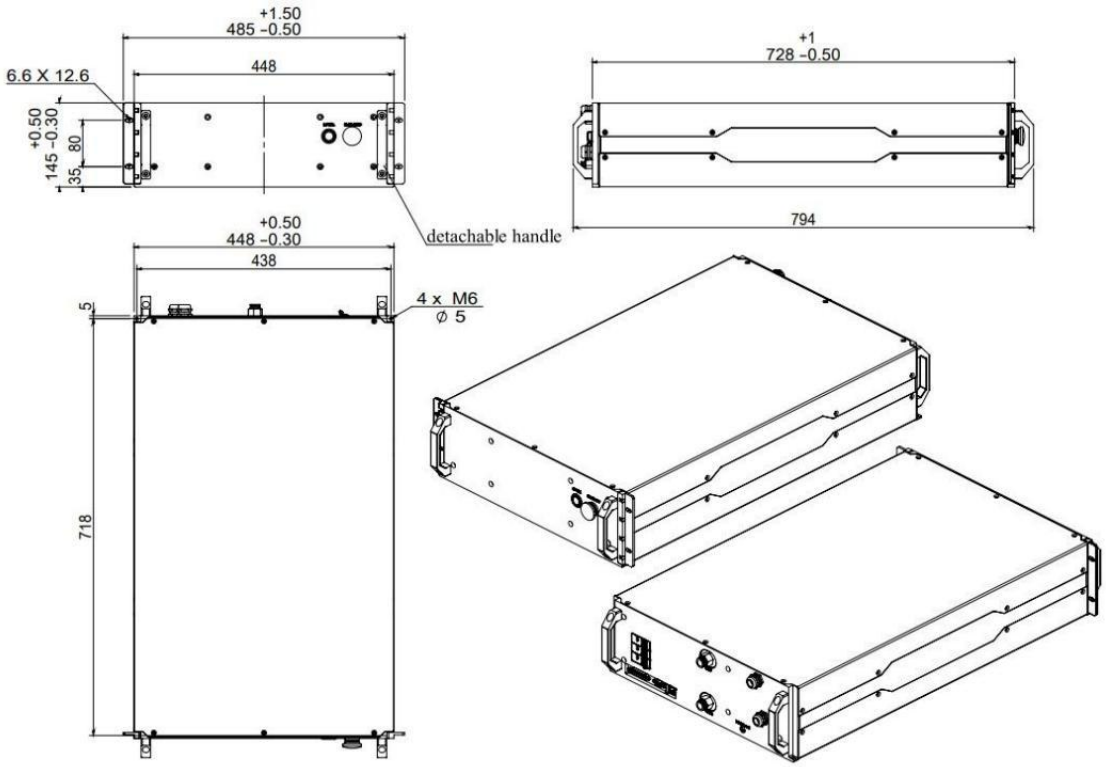
5. The pulse width corresponds to the power reduction frequency point and the maximum single pulse energy

No.	Pulse width (ns)	Power reduction frequency (kHz)	Upper frequency limit (kHz)	Max single pulse energy (mJ)
1	30	1000	1000	2.00
2	60	600	1000	3.33
3	80	480	1000	4.17
4	100	420	1000	4.76
5	150	300	1000	6.67
6	200	220	1000	9.09
7	300	200	400	10.00
8	400	160	400	12.50
9	500	133	400	15.04

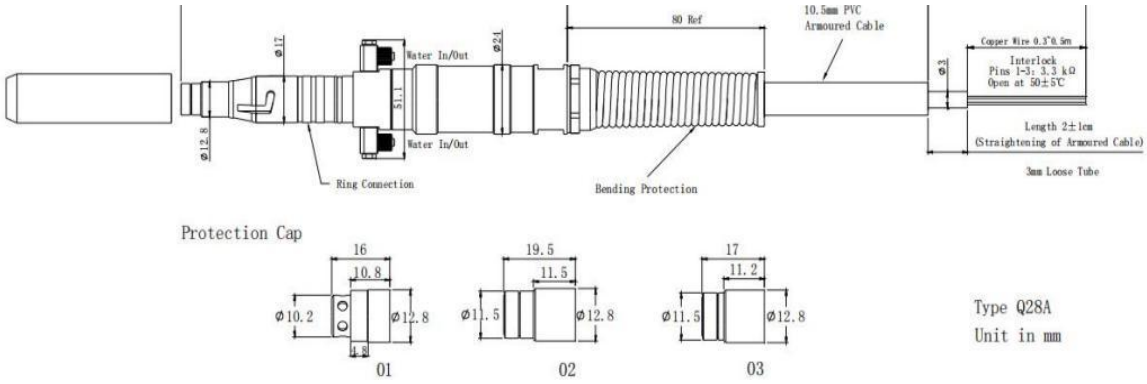


The relationship between laser output power and frequency

6. Dimension



Laser dimension



QBH dimension