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1. Optical characteristics

No.	Characteristics	Parameter value	Unit
1	Central wavelength	1060 - 1080	nm
2	Spectral width @3dB	< 20	nm
3	Maximum pulse energy	1.0	mJ
4	Output power	50	W
5	Power adjustment range	0 - 100	%
6	Frequency adjustment range	1 - 3000	kHz
7	Laser switching ON/OFF time	< 20	μs
8	Pulse width	0.2 - 500	ns
9	Output power instability	< 5	%
10	Beam quality M ²	< 1.5	/
11	Polarization direction	Random	/
12	Anti-high reflection	Yes	/
13	Indicator red light	0.3 - 2	mW
14	Collimated beam diameter (4σ)	7 ± 1	mm
15	Delivery cable length	2	m

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2. Electrical characteristics

No.	Characteristics	Parameter value	Unit
1	Power supply voltage	24	VDC
2	Working current	< 14	A
3	Power consumption	< 336	W
4	Recommended power supply	≥ 350	W

3. Environmental requirements

No.	Characteristics	Parameter value	Unit
1	Operating temperature	0 - 40	°C
2	Storage temperature	-10 - 60	°C
3	Cooling method (chassis)	Air cooling	/
4	Cooling method (output head)	Water cooling	/
5	Water cooler set temperature	28 ± 1	°C
6	Water cooler flow rate	1 - 3	L/min

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7	Water pipe diameter	6	mm
8	Water cooler cooling capacity	≥ 100	W

4. Structural characteristics

No.	Characteristics	Parameter value	Unit
1	Laser dimension	338.5*301*95.8	mm ³
2	Isolator dimension	298*160*63	mm ³
3	Net weight	< 20	kg

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

No.	Pulse width (100ps)	Power reduction frequency(kHz)	Upper frequency limit (kHz)	Max single pulse energy (mJ)
1	2	1600	3000	0.03
2	3	1100	3000	0.05
3	5	1000	3000	0.05

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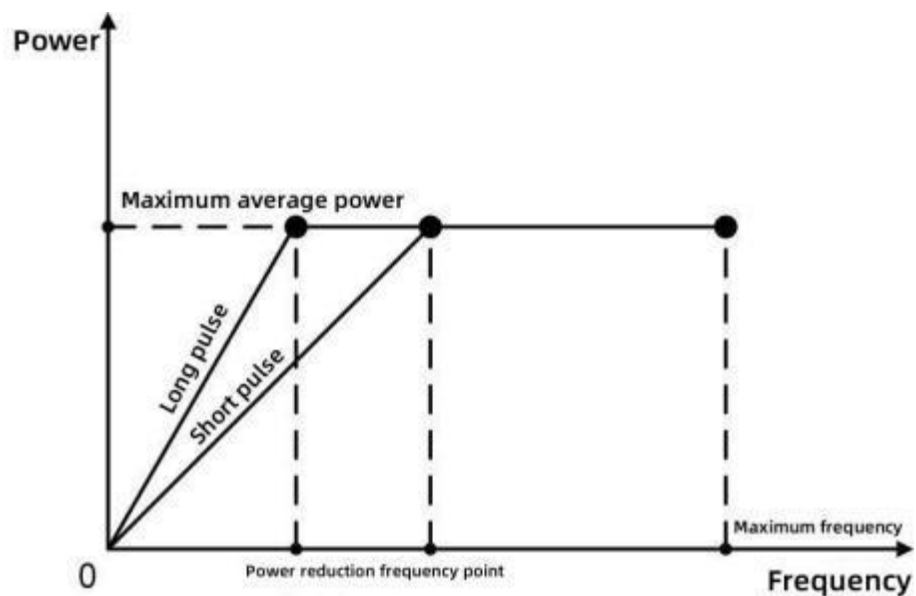
4	8	850	3000	0.06
5	10	750	3000	0.07
6	20	410	3000	0.12
7	30	270	3000	0.19
8	40	200	3000	0.25
9	50	180	3000	0.28
10	60	160	3000	0.31
11	70	150	3000	0.33
12	80	140	3000	0.36
13	90	130	3000	0.38
14	100	120	3000	0.42
15	120	100	3000	0.50
16	200	70	2000	0.71
17	300	66	2000	0.76
18	450	63	2000	0.79
19	600	60	2000	0.83
20	800	58	1000	0.86

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21	1000	55	1000	0.91
22	1500	53	1000	0.94
23	2000	53	1000	0.94
24	2500	50	400	1.00
25	3500	50	400	1.00
26	5000	50	400	1.00



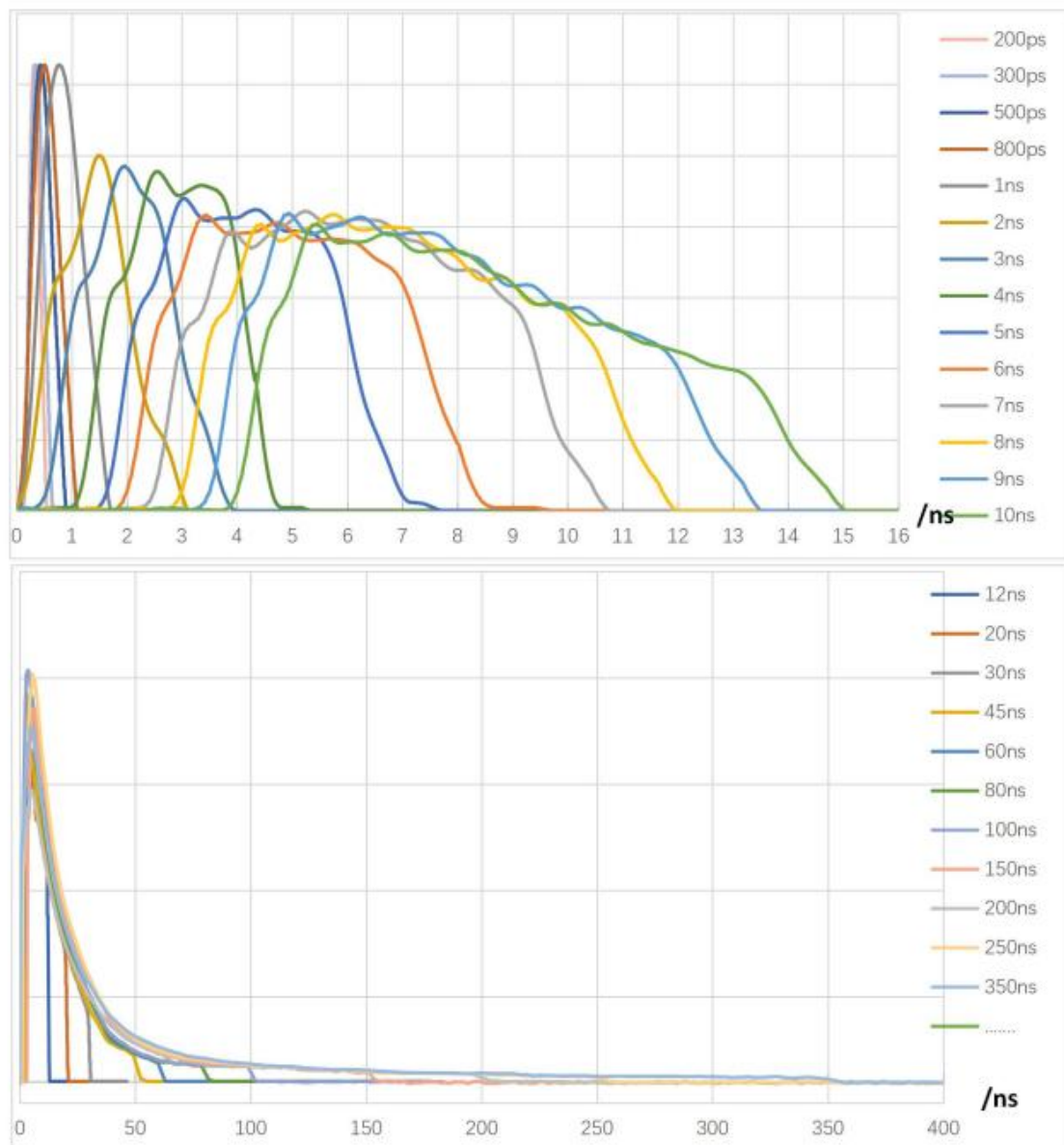
The relationship between laser output power and frequency

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6. Pulse width waveform

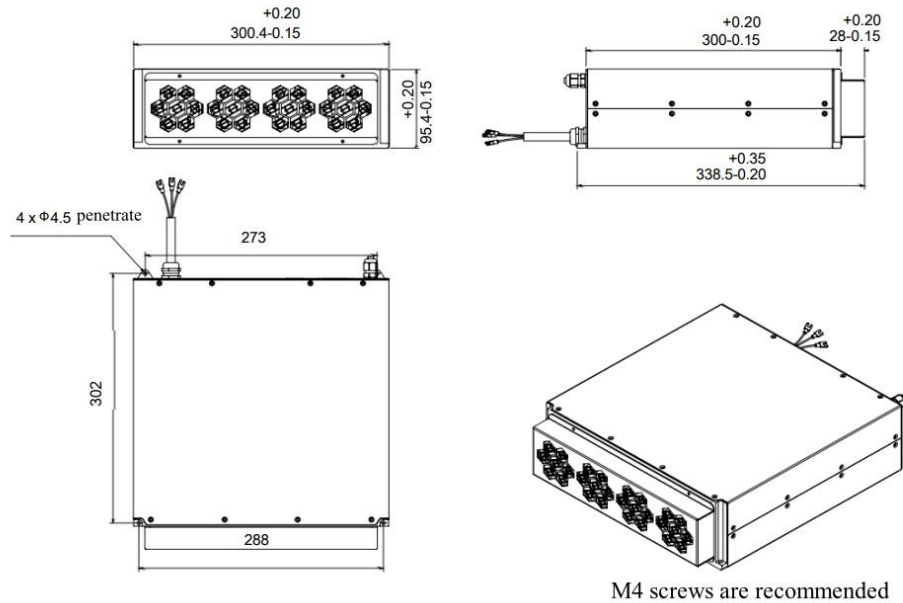


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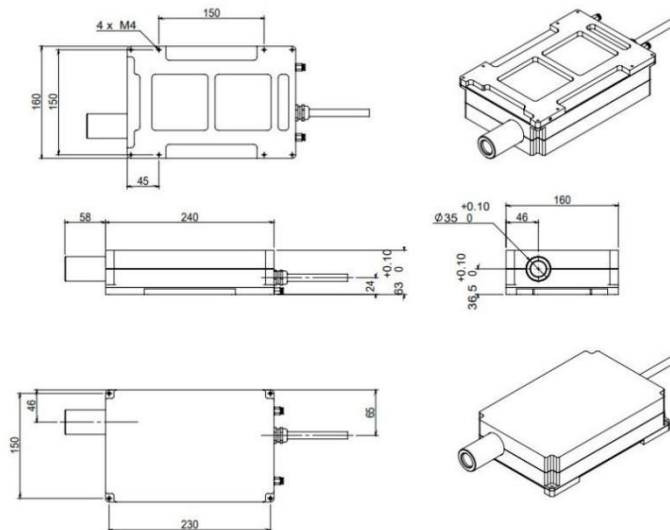
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7. Dimension



Laser dimension



Output head dimension

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