

ETD29 core 20 layers with no additional isolation secondary, gaps 100um and 4-turn primary
 Double cascade is used with 16 BY6 diodes and 16 1nF capacitors (8 per side)
 18650: the usage of battery with measured battery voltage during the measurements (3.5V-4.1V)
 LTspice: simulation results
 PS: power supply is used with 2A current limit

freq [kHz]	Vout [kV] 3.96V 18650	Vout [kV] LTspice 3.96V	Vout [kV] 3.53V 18650	Vout [kV] 3.7V DC PS	Vout [kV] 7.4V DC PS
1	3.7	4.4	3.0	4.4	5.2
2	4.9	5.3	4.0	6.0	8.7
3	5.6	5.8	4.5	6.7	9.8
4	7.2	5.8	5.8	8.3	14.3
5	5.9	8.4	4.7	7.4	10.0
6	6.3	12.7	5.1	8.0	11.4
7	6.3	7.6	5.1	8.6	11.9
8	6.9	6.3	5.7	9.1	14.3
9	8.5	6.4	7.0	10.2	21.0
10	10.9	7.2	9.2	12.3	26.7
11	13.3	8.4	11.5	13.8	32.5
12	14.7	10.3	12.7	14.6	33.4
13	14.1	12.9	11.6	13.5	29.9
14	11.8	16.0	9.5	12.1	21.3
15	9.3	18.8	7.4	10.5	13.7
16	7.5	20.2	5.8	8.7	9.6
17	5.9	20.3	4.8	7.5	7.2
18	5.2	19.8	3.9	6.3	5.8
19	4.2	19.0	3.2	5.5	4.6
20	3.6	18.1	2.6	4.6	3.6