

Dimensionnement global du BUCK entrelacé

No	n	m	g	P _c (W)	V _e (V)	α	I _s (A)	L _k (μ H)	I _{Lk_moy} (A)	ΔI_{Lk} (A)	ΔI_{Lk} (%)	I _{Lk_eff} (A)	I _{Lk_max} (A)	I _{Lk_min} (A)	V _{SC_max} (V)	I _{Tk_moy} (A)	I _{Tk_eff} (A)	I _{Dk_moy} (A)	I _{Dk_eff} (A)	L _f (μ H)	C _f (μ F)	C _s (μ F)
1	1	1	1	2500	60	0.83	50	33.3	50.0	5.0	10	50.0	52.5	47.5	100	41.7	45.7	8.3	20.4	2.5	23.1	2.5
2	2	1	1	5000	120	0.42	100	58.3	100.0	10.0	10	100.0	105.0	95.0	200	41.7	64.6	58.3	76.4	5.0	40.5	5.0
3	3	1	1	7500	180	0.28	150	48.1	150.0	15.0	10	150.1	157.5	142.5	300	41.7	79.1	108.3	127.5	7.5	33.4	7.5
4	4	1	1	10000	240	0.21	200	39.6	200.0	20.0	10	200.1	210.0	190.0	400	41.7	91.3	158.3	178.0	10.0	27.5	10.0
5	1	2	1	2500	60	0.83	50	31.0	25.0	5.4	22	25.0	27.7	22.3	100	20.8	22.9	4.2	10.2	1.3	11.6	1.3
6	2	2	1	5000	120	0.42	100	31.3	50.0	18.6	37	50.3	59.3	40.7	200	20.8	32.5	29.2	38.4	2.5	20.3	2.5
7	3	2	1	7500	180	0.28	150	37.7	75.0	19.1	26	75.2	84.6	65.4	300	20.8	39.6	54.2	63.9	3.8	16.7	3.8
8	4	2	1	10000	240	0.21	200	34.8	100.0	22.8	23	100.2	111.4	88.6	400	20.8	45.7	79.2	89.2	5.0	13.7	5.0
9	1	3	1	2500	60	0.83	50	28.6	16.7	5.8	35	16.8	19.6	13.8	100	13.9	15.3	2.8	6.8	0.8	7.7	0.8
10	2	3	1	5000	120	0.42	100	19.4	33.3	30.0	90	34.4	48.3	18.3	200	13.9	22.2	19.4	26.3	1.7	13.5	1.7
11	3	3	1	7500	180	0.28	150	27.3	50.0	26.4	53	50.6	63.2	36.8	300	13.9	26.7	36.1	43.0	2.5	11.1	2.5
12	4	3	1	10000	240	0.21	200	30.0	66.7	26.4	40	67.1	79.9	53.5	400	13.9	30.6	52.8	59.7	3.3	9.2	3.3
13	1	4	1	2500	60	0.83	50	26.2	12.5	6.4	51	12.6	15.7	9.3	100	10.4	11.5	2.1	5.2	0.6	5.8	0.6
14	2	4	1	5000	120	0.42	100	15.6	25.0	37.3	149	27.2	43.7	6.3	200	10.4	17.6	14.6	20.8	1.3	10.1	1.3
15	3	4	1	7500	180	0.28	150	16.9	37.5	42.7	114	39.5	58.8	16.2	300	10.4	20.8	27.1	33.5	1.9	8.4	1.9
16	4	4	1	10000	240	0.21	200	25.2	50.0	31.5	63	50.8	65.7	34.3	400	10.4	23.2	39.6	45.2	2.5	6.9	2.5
17	1	5	1	2500	60	0.83	50	23.8	10.0	7.0	70	10.2	13.5	6.5	100	8.3	9.3	1.7	4.2	0.5	4.6	0.5
18	2	5	1	5000	120	0.42	100	18.2	20.0	32.0	160	22.0	36.0	4.0	200	8.3	14.2	11.7	16.8	1.0	8.1	1.0
19	3	5	1	7500	180	0.28	150	15.0	30.0	48.0	160	33.0	54.0	6.0	300	8.3	17.4	21.7	28.1	1.5	6.7	1.5
20	4	5	1	10000	240	0.21	200	20.3	40.0	38.9	97	41.5	59.5	20.5	400	8.3	19.0	31.7	37.0	2.0	5.5	2.0
21	1	6	1	2500	60	0.83	50	21.4	8.3	7.8	93	8.6	12.2	4.4	100	6.9	7.9	1.4	3.5	0.4	3.9	0.4
22	2	6	1	5000	120	0.42	100	21.9	16.7	26.7	160	18.4	30.0	3.3	200	6.9	11.9	9.7	14.0	0.8	6.8	0.8
23	3	6	1	7500	180	0.28	150	18.1	25.0	40.0	160	27.5	45.0	5.0	300	6.9	14.5	18.1	23.4	1.3	5.6	1.3
24	4	6	1	10000	240	0.21	200	15.5	33.3	51.0	153	36.4	58.8	7.9	400	6.9	16.6	26.4	32.4	1.7	4.6	1.7