TAME-POWER TRONICO

Powermap

Convy Series V2.4

CONVY-DCDC-800V-07-RB-00 (DOUBLE CONVERTER)

Maximum output power according to Vlow side and Vhigh side

Max output power (kW) when the DCDC converter operates at Vlow side = 110V, Vhigh side =180V

Vlow side \ Vhigh side	100	120	140	160	180	200	220
85	2	4	6	7	7	8	9
90	2	4	6	8	8	8	10
95	1	3	6	8	8	9	11
100		2	5	8	8	10	12
110			4	8	10	12	12
120				8	10	12	14
130				8	10	12	14
140				6	8	12	14
150				6	8	12	16
160					4	10	14

- Tame-Power DCDC converters embed a powerful software that permanently calculates the maximum power the device can transfer.
- The calculation is done in real-time, according to the values of low side voltage and high side voltage.
- The Power Maps aim to bring you a clear overview of how the features change according to the operating point.
- This allows you to optimize the overall performance of your whole system by selecting the best voltage ranges to operate.

Boost mode (in kW)

Vlow \ Vhigh	40	50	60	70	80	90	100	115	130	145	160	175	190	205	220	235	250	265	280	295	310	325	340	355	370	385	400	415	430	445	460	475	490	505	520	535	550	565	580	595	610	625	640	655	670	685	700	715	730	745	760	775	790	800
35	0	0	0	2	3	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	6	6	6	6	6	5	5	5	5	5	5	5	5	3	0	0	0	0	0	0	0
40	0	0	1	3	4	6	7	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	10	10	10	10	9	9	9	9	9	9	8	8	8	7	2	0	0	0	0	0	0	0
45	0	0	0	1	3	5	7	10	10	11	11	11	12	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	10	9	9	9	9	9	8	8	7	0	0	0	0	0	0
50	0	0	0	2	5	7	10	14	14	14	14	14	14	13	13	13	13	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10	10	9	9	9	6	0	0	0	0	0
60	0	0	0	0	3	8	12	17	17	17	16	16	15	14	14	14	13	13	13	13	13	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10	10	10	4	0	0	0	0
70	0	0	0	0	0	4	9	16	20	20	18	17	16	15	15	14	14	14	13	13	13	13	13	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10	6	0	0	0	0
80	0	0	0	0	0	0	4	12	23	23	20	19	18	17	16	15	15	15	14	14	14	13	13	13	13	13	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10	0	0	0
90	0	0	0	0	0	0	0	6	21	26	23	21	19	18	17	17	16	15	15	15	14	14	14	14	13	13	13	13	13	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	10	10	10	10	10	1	0
100	0	0	0	0	0	0	0	0	15	26	27	24	22	20	19	18	17	16	16	15	15	15	14	14	14	14	13	13	13	13	13	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	10	10	10	2
115	0	0	0	0	0	0	0	0	0	18	32	30	26	23	21	20	19	18	17	17	16	16	15	15	15	14	14	14	14	13	13	13	13	13	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11
130	0	0	0	0	0	0	0	0	0	0	21	35	32	28	25	23	21	20	19	18	18	17	16	16	16	15	15	15	14	14	14	14	13	13	13	13	13	13	13	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11
145	0	0	0	0	0	0	0	0	0	0	0	24	38	35	30	27	24	22	21	20	19	18	18	17	17	16	16	16	15	15	15	14	14	14	14	13	13	13	13	13	13	12	12	12	12	12	12	12	12	11	11	11	11	11
160	0	0	0	0	0	0	0	0	0	0	0	0	27	41	37	32	28	26	24	22	21	20	19	18	18	17	17	16	16	16	15	15	15	15	14	14	14	14	14	13	13	13	13	13	13	12	12	12	12	12	12	12	12	12
175	0	0	0	0	0	0	0	0	0	0	0	0	0	30	44	40	34	30	27	25	23	22	21	20	19	19	18	18	17	17	16	16	16	15	15	15	15	14	14	14	14	13	13	13	13	13	13	13	13	12	12	12	12	12
190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	47	42	36	32	29	26	25	23	22	21	20	19	19	18	18	17	17	16	16	16	15	15	15	15	14	14	14	14	14	13	13	13	13	13	13	12	12	12	12
205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	50	45	38	34	30	28	26	24	23	22	21	20	19	19	18	18	17	17	17	16	16	16	15	15	15	15	14	14	14	14	14	13	13	13	13	13	13	13
220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	53	47	40	35	32	29	27	25	24	23	22	21	20	19	19	18	18	17	17	17	16	16	16	15	15	15	15	14	14	14	14	14	14	13	13	13	13
235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	56	50	42	37	33	30	28	26	25	24	22	22	21	20	19	19	18	18	18	17	17	16	16	16	16	15	15	15	15	14	14	14	14	14	14	13
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	59	52	44	39	35	32	29	27	26	24	23	22	21	21	20	20	19	19	18	18	17	17	17	16	16	16	15	15	15	15	15	14	14	14	14
265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	62	55	46	40	36	33	30	28	27	25	24	23	22	21	21	20	19	19	19	18	18	17	17	17	16	16	16	16	15	15	15	15	14	14
280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	65	57	48	42	37	34	31	29	28	26	25	24	23	22	21	21	20	19	19	19	18	18	17	17	17	16	16	16	16	15	15	15	15
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	68	60	50	44	39	35	33	30	28	27	26	24	24	23	22	21	20	20	19	19	19	18	18	17	17	17	16	16	16	16	15	15
310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	71	63	52	45	40	37	34	31	29	28	26	25	24	23	22	22	21	20	20	20	19	19	18	18	18	17	17	17	16	16	16
325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	74	65	54	47	42	38	35	32	30	29	27	26	25	24	23	22	22	21	20	20	20	19	19	18	18	18	17	17	17	16
340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	77	68	56	49	43	39	36	33	31	30	28	27	26	25	24	23	22	21	21	20	20	19	19	19	18	18	18	17	17
355	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	80	70	58	51	45	41	37	34	32	30	29	27	26	25	24	24	23	22	21	21	20	20	19	19	19	18	18	18
370	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	83	73	60	52	46	42	38	35	33	31	30	28	27	26	25	24	23	23	22	21	21	20	20	19	19	19	18
385	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	86	75	63	54	48	43	39	37	34	32	30	29	28	27	26	25	24	23	22	22	21	21	20	20	19	19
400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	89	78	65	56	49	44	41	38	35	33	31	30	28	27	26	25	24	24	23	22	22	21	21	20	20
415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78	92	80	67	57	51	46	42	39	36	34	32	30	29	28	27	26	25	24	23	23	22	22	21	21
430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	95	83	69	59	52	47	43	40	37	35	33	31	30	28	27	26	25	25	24	23	23	22	22
445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	98	85	71	61	54	48	44	41	38	35	34	32	30	29	28	27	26	25	24	24	23	23
460	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	100	88	73	62	55	49	45	42	39	36	34	33	31	30	28	27	26	26	25	24	24
475	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	100	90	75	64	57	51	46	43	40	37	35	33	32	30	29	28	27	26	25	25
490	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	100	93	77	66	58	52	47	44	41	38	36	34	32	31	30	29	28	27	26
505	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	100	96	79	68	60	53	49	45	42	39	37	35	33	32	30	29	28	27
520	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	98	81	69	61	55	50	46	43	40	38	36	34	32	31	30	29

CONVY-DCDC-800V-07-RB-00_PowerMap - Boost Mode (kW)

Buck mode (in kW)

Vlow \ Vhigh	40	50	60	70	80	90	100	115	130	145	160	175	190	205	220	235	250	265	280	295	310	325	340	355	370	385	400	415	430	445	460	475	490	505	520	535	550	565	580	595	610	625	640	655	670	685	700	715	730	745	760	775	790	800
35	0	0	0	2	3	4	5	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	9	9	9	9	9	9	9	9	9	9	9	9	9	6	3	0	0	0	0	0	0
40	0	0	0	3	4	6	8	8	9	9	10	10	10	10	11	11	11	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	6	2	0	0	0	0	0
45	0	0	0	1	3	5	7	10	11	11	12	12	13	13	13	13	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	3	0	0	0	0	0
50	0	0	0	2	4	7	10	14	15	15	15	14	14	13	13	13	13	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	0	0	0	0	0
60	0	0	0	0	2	7	11	17	18	17	16	16	15	14	14	14	13	13	13	13	13	12	12	12	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	7	1	0	0	0
70	0	0	0	0	0	3	8	15	21	20	18	17	16	15	15	15	14	14	14	13	13	13	13	13	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	9	0	0	0
80	0	0	0	0	0	0	3	11	24	23	20	19	18	17	16	15	15	15	14	14	14	14	13	13	13	13	13	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	3	0	0
90	0	0	0	0	0	0	0	5	19	27	23	21	19	18	17	17	16	16	15	15	14	14	14	14	14	13	13	13	13	13	13	13	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	3	0
100	0	0	0	0	0	0	0	0	13	23	27	24	22	20	19	18	17	16	16	15	15	15	14	14	14	14	14	13	13	13	13	13	13	13	13	13	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	4
115	0	0	0	0	0	0	0	0	0	15	28	30	26	23	21	20	19	18	17	17	16	16	15	15	15	15	15	14	14	14	14	13	13	13	13	13	13	13	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
130	0	0	0	0	0	0	0	0	0	0	17	32	32	28	25	23	21	20	19	18	18	17	17	16	16	15	15	15	15	14	14	14	14	14	14	13	13	13	13	13	13	13	13	13	13	13	12	12	12	12	12	12	12	12
145	0	0	0	0	0	0	0	0	0	0	0	19	36	35	30	27	24	22	21	20	19	18	18	17	17	16	16	16	15	15	15	14	14	14	14	14	13	13	13	13	13	13	13	13	13	13	13	13	13	12	12	12	12	12
160	0	0	0	0	0	0	0	0	0	0	0	0	21	40	37	32	28	26	24	22	21	20	19	18	18	17	17	16	16	16	15	15	15	15	15	14	14	14	14	14	14	13	13	13	13	13	13	13	13	13	13	13	13	13
175	0	0	0	0	0	0	0	0	0	0	0	0	0	23	43	40	34	30	27	25	23	22	21	20	19	19	18	18	17	17	16	16	16	16	15	15	15	15	15	14	14	14	14	14	14	13	13	13	13	13	13	13	13	13
190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	46	42	36	32	29	26	25	23	22	21	20	19	19	18	18	17	17	17	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	14	13	13	13	13	13
205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	49	45	38	33	30	28	26	24	23	22	21	20	19	19	18	18	17	17	17	16	16	16	16	15	15	15	15	15	15	14	14	14	14	14	14	14	14	13
220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	52	47	40	35	31	29	27	25	24	23	22	21	20	19	19	18	18	17	17	17	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	14	14
235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	55	50	42	37	33	30	28	26	25	23	22	22	21	20	19	19	18	18	18	17	17	17	16	16	16	16	15	15	15	15	15	14	14	14	14	14
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	58	52	44	38	34	31	29	27	26	24	23	22	21	21	20	20	19	19	18	18	17	17	17	16	16	16	15	15	15	15	15	15	15	15	15
265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	61	55	46	40	36	33	30	28	26	25	24	23	22	21	21	20	19	19	19	18	18	17	17	17	17	16	16	16	16	16	15	15	15	15
280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	64	57	48	42	37	34	31	29	27	26	25	24	23	22	21	21	20	20	19	19	18	18	18	17	17	17	16	16	16	16	16	15	15
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	67	60	50	43	39	35	32	30	28	27	25	24	23	23	22	21	21	20	20	19	19	19	18	18	18	17	17	17	16	16	16	16
310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	70	62	52	45	40	36	34	31	29	28	26	25	24	23	22	22	21	20	20	20	19	19	18	18	18	17	17	17	17	16	16
325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	72	65	54	47	42	38	35	32	30	28	27	26	25	24	23	22	22	21	20	20	20	19	19	18	18	18	17	17	17	17
340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	75	67	56	49	43	39	36	33	31	29	28	26	25	24	24	23	22	21	21	20	20	19	19	19	18	18	18	17	17
355	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	78	70	58	50	45	40	37	34	32	30	29	27	26	25	24	23	23	22	21	21	20	20	19	19	19	18	18	18
370	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	81	72	60	52	46	41	38	35	33	31	29	28	27	26	25	24	23	22	22	21	21	20	20	20	19	19	19
385	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	84	75	62	54	47	43	39	36	34	32	30	29	27	26	25	24	24	23	22	22	21	21	20	20	19	19
400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	87	77	64	55	49	44	40	37	35	33	31	29	28	27	26	25	24	23	23	22	22