Powermap

Convy Series V2.4

CONVY-DCDC-800V-07-RA-00 (SINGLE 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

Vhigh side

Vlow 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	0	1	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	1	0	0	0	0	0	0	0
40	0	0	0	1	2	3	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	5	5	5	5	5	5	5	5	4	4	4	4	4	4	1	0	0	0	0	0	0
45	0	0	0	0	2	3	4	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	0	0	0	0	0	0
50	0	0	0	0	2	4	5	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	0	0	0	0	0
60	0	0	0	0	1	4	6	9	9	9	8	8	8	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	2	0	0	0	0
70	0	0	0	0	0	2	5	8	10	10	9	9	8	8	8	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	3	0	0	0
80	0	0	0	0	0	0	2	6	12	11	10	9	9	8	8	8	8	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	0	0	0
90	0	0	0	0	0	0	0	3	11	13	12	11	10	9	9	8	8	8	8	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	0	0
100	0	0	0	0	0	0	0	0	8	13	14	12	11	10	9	9	9	8	8	8	8	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	1
115	0	0	0	0	0	0	0	0	0	9	16	15	13	12	11	10	10	9	9	8	8	8	8	8	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5
130	0	0	0	0	0	0	0	0	0	0	11	17	16	14	12	12	11	10	10	9	9	9	8	8	8	8	8	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5
145	0	0	0	0	0	0	0	0	0	0	0	12	19	17	15	13	12	11	11	10	10	9	9	9	8	8	8	8	8	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
160	0	0	0	0	0	0	0	0	0	0	0	0	14	20	19	16	14	13	12	11	11	10	10	9	9	9	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6
175	0	0	0	0	0	0	0	0	0	0	0	0	0	15	22	20	17	15	14	13	12	11	11	10	10	9	9	9	9	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6
190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	23	21	18	16	14	13	12	12	11	11	10	10	9	9	9	9	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6
205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	25	22	19	17	15	14	13	12	11	11	11	10	10	9	9	9	9	9	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	6	6	6	6
220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	26	24	20	18	16	15	13	13	12	11	11	10	10	10	9	9	9	9	9	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7
235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	28	25	21	19	17	15	14	13	12	12	11	11	10	10	10	10	9	9	9	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	29	26	22	19	17	16	15	14	13	12	12	11	11	10	10	10	10	9	9	9	9	8	8	8	8	8	8	8	8	7	7	7	7	7	7
265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	31	28	23	20	18	16	15	14	13	13	12	12	11	11	10	10	10	10	9	9	9	9	8	8	8	8	8	8	8	8	7	7	7	7
280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	32	29	24	21	19	17	16	15	14	13	12	12	11	11	11	10	10	10	10	9	9	9	9	9	8	8	8	8	8	8	8	8	7
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	34	30	25	22	20	18	16	15	14	13	13	12	12	11	11	11	10	10	10	10	9	9	9	9	9	8	8	8	8	8	8	8
310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	35	31	26	23	20	18	17	16	15	14	13	13	12	12	11	11	11	10	10	10	10	9	9	9	9	8	8	8	8	8	8
325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	37	33	27	24	21	19	17	16	15	14	14	13	12	12	12	11	11	11	10	10	10	10	9	9	9	9	9	9	8	8
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	32	38	34	28	24	22	20	18	17	16	15	14	13	13	12	12	11	11	11	10	10	10	10	9	9	9	9	9	9	9
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	33	40	35	29	25	22	20	19	17	16	15	14	14	13	13	12	12	11	11	11	11	10	10	10	10	9	9	9	9
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	35	41	36	30	26	23	21	19	18	17	16	15	14	14	13	13	12	12	11	11	11	10	10	10	10	10	9	9
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	36	43	38	31	27	24	22	20	18	17	16	15	14	14	13	13	12	12	12	11	11	11	10	10	10	10	10
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	38	44	39	32	28	25	22	20	19	18	17	16	15	14	14	13	13	12	12	11	11	11	11	10	10	10
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	39	46	40	33	29	25	23	21	19	18	17	16	15	15	14	13	13	13	12	12	11	11	11	11	10
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	41	47	42	34	30	26	23	21	20	19	17	16	16	15	14	14	13	13	13	12	12	12	11	11
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	42	49	43	35	30	27	24	22	20	19	18	17	16	15	15	14	13	13	13	12	12	12	11
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	44	50	44	36	31	28	25	23	21	19	18	17	16	16	15	14	14	13	13	12	12	12
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	45	50	45	37	32	28	25	23	21	20	19	18	17	16	15	15	14	14	13	13	12
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	47	50	47	38	33	29	26	24	22	20	19	18	17	16	16	15	14	14	13	13
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	48	50	48	40	34	30	27	24	22	21	20	18	17	17	16	15	15	14	14
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	50	50	49	41	35	31	27	25	23	21	20	19	18	17	16	16	15	15

CONVY-DCDC-800V-07-RA-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	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	4	4	4	4	4	4	3	2	0	0	0	0	0	0
40	0	0	0	1	2	3	4	4	5	5	5	5	5	5	5	5	6	6	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	5	5	5	5	3	1	0	0	0	0	0
45	0	0	0	0	2	3	4	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	2	0	0	0	0	0
50	0	0	0	0	2	4	5	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	0	0	0	0	0
60	0	0	0	0	1	3	6	9	9	9	8	8	8	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	3	0	0	0	0
70	0	0	0	0	0	1	4	7	10	10	9	9	8	8	8	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	0	0	0
80	0	0	0	0	0	0	2	6	12	11	10	9	9	8	8	8	8	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	1	0	0
90	0	0	0	0	0	0	0	3	9	13	12	11	10	9	9	8	8	8	8	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	2	0
100	0	0	0	0	0	0	0	0	6	12	14	12	11	10	9	9	9	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	2
115	0	0	0	0	0	0	0	0	0	8	14	15	13	12	11	10	10	9	9	8	8	8	8	8	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
130	0	0	0	0	0	0	0	0	0	0	9	16	16	14	12	12	11	10	10	9	9	9	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
145	0	0	0	0	0	0	0	0	0	0	0	10	18	17	15	13	12	11	11	10	10	9	9	9	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6
160	0	0	0	0	0	0	0	0	0	0	0	0	11	20	19	16	14	13	12	11	11	10	10	9	9	9	9	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6
175	0	0	0	0	0	0	0	0	0	0	0	0	0	12	22	20	17	15	14	13	12	11	11	10	10	9	9	9	9	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	23	21	18	16	14	13	12	12	11	11	10	10	9	9	9	9	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	25	22	19	17	15	14	13	12	11	11	11	10	10	9	9	9	9	9	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	7
220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	26	24	20	18	16	15	13	13	12	11	11	10	10	10	9	9	9	9	9	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7
235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	27	25	21	18	17	15	14	13	12	12	11	11	10	10	10	10	9	9	9	9	9	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	29	26	22	19	17	16	15	14	13	12	12	11	11	10	10	10	10	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	7	7	7
265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	30	27	23	20	18	16	15	14	13	13	12	11	11	11	10	10	10	10	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8
280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	32	29	24	21	19	17	16	15	14	13	12	12	11	11	11	10	10	10	10	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	33	30	25	22	19	18	16	15	14	13	13	12	12	11	11	11	10	10	10	10	9	9	9	9	9	8	8	8	8	8	8	8	8
310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	35	31	26	23	20	18	17	16	15	14	13	13	12	12	11	11	11	10	10	10	10	9	9	9	9	9	8	8	8	8	8	8
325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	36	32	27	23	21	19	17	16	15	14	14	13	12	12	12	11	11	11	10	10	10	10	9	9	9	9	9	9	8	8
340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	38	34	28	24	22	20	18	17	16	15	14	13	13	12	12	11	11	11	10	10	10	10	10	9	9	9	9	9	9	9
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	22	39	35	29	25	22	20	18	17	16	15	14	14	13	13	12	12	11	11	11	10	10	10	10	10	10	9	9	9	9
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	23	41	36	30	26	23	21	19	18	16	16	15	14	13	13	12	12	12	11	11	11	10	10	10	10	10	10	9	9
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	24	42	38	31	27	24	21	20	18	17	16	15	14	14	13	13	12	12	12	11	11	11	10	10	10	10	10	10
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	24	44	39	32	28	24	22	20	19	17	16	15	15	14	13	13	12	12	11	11	11	11	10	10	10	10