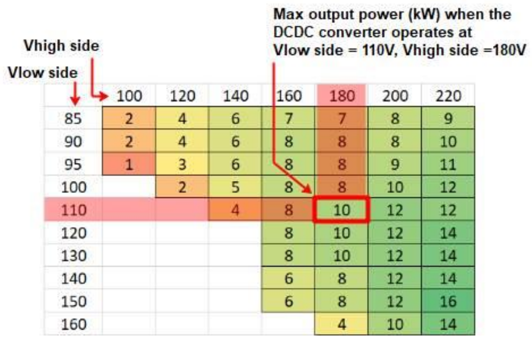
Powermap
Convy Series V2.4

CONVY-DCDC-800V-11-RA-00 (SINGLE CONVERTER)

Maximum output power according to Vlow side and Vhigh side



Vlow \ Vhigh	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	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0
45	0	0	0	0	0	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	0	0	0	0	0	0
50	0	0	0	0	0	1	2	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	1	0	0	0	0	0
60	0	0	0	0	0	2	2	4	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	5	4	0	0	0	0	0
70	0	0	0	0	0	0	2	3	6	6	7	7	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	7	3	1	0	0	0
80	0	0	0	0	0	0	0	3	5	7	8	9	9	10	10	11	11	11	11	11	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	11	11	11	10	8	4	0	0	0
90	0	0	0	0	0	0	0	1	4	7	9	10	11	12	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	12	12	12	12	12	11	11	11	10	2	0	0
100	0	0	0	0	0	0	0	0	3	5	10	11	12	13	14	15	15	15	15	15	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	13	13	12	12	12	12	12	12	7	3	0
115	0	0	0	0	0	0	0	0	0	4	6	12	14	15	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	16	16	16	16	16	16	16	15	15	15	15	14	14	14	13	13	13	13	12	9	4
130	0	0	0	0	0	0	0	0	0	0	4	7	14	16	18	19	19	19	19	19	19	19	19	19	19	19	19	19	18	18	18	18	17	17	17	17	17	16	16	16	16	16	16	16	16	15	15	15	14	14	14	14	13	13
145	0	0	0	0	0	0	0	0	0	0	0	5	8	16	19	21	21	21	21	21	21	21	21	21	21	20	20	20	19	19	19	18	18	18	18	17	17	17	17	17	17	16	16	16	16	16	16	16	16	15	15	15	14	14
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190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	12	23	26	28	28	28	28	28	27	26	25	24	23	23	22	22	21	21	20	20	20	19	19	19	19	18	18	18	18	18	18	17	17	17	17	17	17	17	17
205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	13	25	28	29	30	30	30	30	29	27	26	25	24	24	23	22	22	21	21	21	20	20	20	19	19	19	19	18	18	18	18	18	18	17	17	17	17	17
220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	14	28	29	31	32	32	32	31	30	28	27	26	25	24	24	23	23	22	22	21	21	20	20	20	20	19	19	19	19	18	18	18	18	18	18	17	17
235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	15	29	31	32	34	35	35	33	31	29	28	27	26	25	24	24	23	23	22	22	21	21	21	20	20	20	20	19	19	19	19	18	18	18	18	18
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	16	31	32	34	35	37	36	34	32	30	29	28	27	26	25	25	24	23	23	22	22	22	21	21	21	20	20	20	19	19	19	19	19	18	18
265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	18	32	34	35	37	38	38	35	33	31	30	29	28	27	26	25	25	24	23	23	23	22	22	21	21	21	20	20	20	20	19	19	19	19
280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	19	34	35	37	38	40	39	36	34	32	31	30	29	28	27	26	25	25	24	24	23	23	22	22	21	21	21	21	20	20	20	20	19
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	20	35	37	38	40	41	40	38	35	34	32	31	29	28	27	27	26	25	25	24	24	23	23	22	22	22	21	21	21	21	20	20
310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	21	37	38	40	41	43	42	39	37	35	33	32	30	29	28	27	27	26	25	25	24	24	23	23	22	22	22	21	21	21	21
325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	22	38	40	41	43	44	43	40	38	36	34	32	31	30	29	28	27	26	26	25	25	24	24	23	23	22	22	22	22	21
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	13	23	40	41	43	44	46	45	42	39	37	35	33	32	31	30	29	28	27	26	26	25	25	24	24	23	23	23	22	22
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	13	25	41	43	44	46	47	46	43	40	38	36	34	33	32	30	29	29	28	27	26	26	25	25	24	24	23	23	23
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	14	26	43	44	46	47	49	47	44	41	39	37	35	34	32	31	30	29	28	28	27	26	26	25	25	24	24	24
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	14	27	44	46	47	49	50	49	45	42	40	38	36	35	33	32	31	30	29	28	28	27	26	26	25	25	24
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	15	28	46	47	49	50	52	50	47	44	41	39	37	35	34	33	32	31	30	29	28	27	27	26	26	25
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	16	29	47	49	50	52	53	52	48	45	42	40	38	36	35	33	32	31	30	29	29	28	27	27	26
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	16	30	49	50	52	53	55	53	49	46	43	41	39	37	36	34	33	32	31	30	29	29	28	27
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	17	32	50	52	53	55	55	55	50	47	44	42	40	38	36	35	34	33	32	31	30	29	29
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	17	33	52	53	55	55	55	55	52	48	45	43	41	39	37	36	34	33	32	31	30	30
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	18	34	53	55	55	55	55	55	53	49	46	44	42	40	38	36	35	34	33	32	31
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	19	35	55	55	55	55	55	55	54	50	47	45	42	40	39	37	36	35	34	33
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	19	36	55	55	55	55	55	55	55	52	48	46	43	41	40	38	37	35	35
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	20	37	55	55	55	55	55	55	55	53	49	47	44	42	40	39	37	36

CONVY-DCDC-800V-11-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	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0	0
40	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	0	0	0	0	0	0
45	0	0	0	0	0	1	1	2	2	2	2	2	3	3	3	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	4	4	4	4	4	3	3	0	0	0	0	0	0
50	0	0	0	0	0	1	2	3	3	3	4	4	4	4	4	4	4	4	4	4	4	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	2	0	0	0	0	0
60	0	0	0	0	0	1	2	4	5	5	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	7	5	1	0	0	0	0
70	0	0	0	0	0	0	2	3	6	6	7	8	8	8	9	9	9	9	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	10	9	4	2	0	0	0
80	0	0	0	0	0	0	0	2	5	7	8	9	9	10	11	11	11	12	12	12	12	12	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	11	11	10	5	0	0	0
90	0	0	0	0	0	0	0	1	4	6	9	10	11	12	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	12	12	12	12	12	12	12	12	12	3	0	0
100	0	0	0	0	0	0	0	0	3	5	9	11	12	13	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	13	13	8	4	0
115	0	0	0	0	0	0	0	0	0	3	6	11	13	15	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	16	16	16	16	16	16	16	16	16	15	15	15	15	15	15	15	15	15	11	5
130	0	0	0	0	0	0	0	0	0	0	4	7	13	15	17	19	19	19	19	19	19	19	19	19	19	19	19	19	18	18	18	18	17	17	17	17	17	17	16	16	16	16	16	16	16	16	16	16	16	15	15	15	15	15
145	0	0	0	0	0	0	0	0	0	0	0	4	8	15	18	20	22	22	22	22	22	22	22	21	21	20	20	20	19	19	19	18	18	18	18	18	17	17	17	17	17	17	16	16	16	16	16	16	16	16	16	16	16	16
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175	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9	19	22	26	26	26	26	26	26	25	24	23	23	22	21	21	21	20	20	20	19	19	19	18	18	18	18	18	18	17	17	17	17	17	17	17	17	16	16	16
190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	21	25	28	28	28	28	28	27	26	25	24	23	23	22	22	21	21	20	20	20	19	19	19	19	19	18	18	18	18	18	17	17	17	17	17	17	17	17
205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11	23	27	29	30	31	31	30	29	27	26	25	24	24	23	22	22	21	21	21	20	20	20	19	19	19	19	19	18	18	18	18	18	18	17	17	17	17
220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	24	29	31	32	33	33	31	30	28	27	26	25	24	24	23	23	22	22	21	21	20	20	20	20	19	19	19	19	19	18	18	18	18	18	18	18
235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	13	26	31	32	33	35	35	33	31	29	28	27	26	25	24	24	23	23	22	22	21	21	21	20	20	20	20	19	19	19	19	19	18	18	18	18
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	14	28	32	33	35	36	36	34	32	30	29	28	27	26	25	25	24	23	23	22	22	22	21	21	21	20	20	20	20	19	19	19	19	19	19
265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	15	30	34	35	36	38	38	35	33	31	30	29	28	27	26	25	25	24	23	23	23	22	22	21	21	21	20	20	20	20	20	19	19	19
280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	15	32	35	36	38	39	39	36	34	32	31	30	29	28	27	26	25	25	24	24	23	23	22	22	21	21	21	21	20	20	20	20	20
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	16	34	36	38	39	41	40	38	35	34	32	31	29	28	27	27	26	25	25	24	24	23	23	22	22	22	21	21	21	21	20	20
310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	17	35	38	39	41	42	42	39	37	35	33	32	30	29	28	27	27	26	25	25	24	24	23	23	22	22	22	21	21	21	21
325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	18	37	39	41	42	44	43	40	38	36	34	32	31	30	29	28	27	26	26	25	25	24	24	23	23	23	22	22	22	21
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	9	19	39	41	42	44	45	45	41	39	37	35	33	32	31	30	29	28	27	26	26	25	25	24	24	23	23	23	22	22
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	9	19	41	42	44	45	47	46	43	40	38	36	34	33	32	30	29	29	28	27	26	26	25	25	24	24	23	23	23
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	10	20	42	44	45	47	48	47	44	41	39	37	35	34	32	31	30	29	28	28	27	26	26	25	25	24	24	24
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	10	21	44	45	47	48	50	49	45	42	40	38	36	34	33	32	31	30	29	28	28	27	26	26	25	25	24
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	10	22	45	47	48	50	51	50	47	43	41	39	37	35	34	33	32	31	30	29	28	27	27	26	26	25
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	10	22	47	48	50	51	53	52	48	45	42	40	38	36	35	33	32	31	30	29	29	28	27	27	26
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	11	23	48	50	51	53	54	53	49	46	43	41	39	37	35	34	33	32	31	30	29	29	28	27
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	11	24	50	51	53	54	55	54	50	47	44	42	40	38	36	35	34	33	32	31	30	29	29
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	11	24	51	53	54	55	55	55	52	48	45	43	40	39	37	36	34	33	32	31	30	30
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	12	25	53	54	55	55	55	55	53	49	46	44	41	40	38	36	35	34	33	32	31
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	12	26	54	55	55	55	55	55	54	50	47	45	42	40	39	37	36	35	33	33
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	12	26	55	55	55	55	55	55	55	51	48	46	43	41	39	38	36	35	34
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	12	27	55	55	55	55	55	55	55	53	49	47	44	42	40	39	37	36

CONVY-DCDC-800V-11-RA-00_PowerMap - Buck Mode (kW)

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