Powermap

Convy Series V2.4

CONVY-DCDC-800V-15-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

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
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
45	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
50	0	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
60	0	0	0	0	0	0	1	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
70	0	0	0	0	0	0	0	2	3	3	4	4	4	4	4	5	5	5	5	5	5	5	5	5
80	0	0	0	0	0	0	0	1	3	4	4	5	5	5	6	6	6	6	6	6	6	6	6	6
90	0	0	0	0	0	0	0	0	2	3	5	5	6	6	7	7	7	7	7	8	8	8	8	8
100	0	0	0	0	0	0	0	0	2	3	5	6	7	7	8	8	8	8	9	9	9	9	9	10
115	0	0	0	0	0	0	0	0	0	2	3	6	7	8	9	9	10	10	11	11	11	12	12	12
130	0	0	0	0	0	0	0	0	0	0	2	4	8	9	10	11	11	12	12	13	13	14	14	15
145	0	0	0	0	0	0	0	0	0	0	0	3	5	9	10	11	12	13	14	15	15	16	17	17
160	0	0	0	0	0	0	0	0	0	0	0	0	3	5	10	12	13	14	15	16	17	18	19	19
175	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	11	13	15	16	17	19	20	21	22
190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	12	15	16	18	20	21	22	23
205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	14	16	18	20	22	23	25
220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	15	18	20	22	24	26
235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	16	19	22	24	26
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9	17	21	24	26
265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9	19	22	25
280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	20	24
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11	21
310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11
325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
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
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
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
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
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
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
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
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
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
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
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
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
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

Vlow \ Vhigh	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
45	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0
50	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0
60	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	2	0	0	0	0	0
70	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
80	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	4	2	0	0	0
90	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	5	1	0	0
100	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	8	4	2	0
115	12	12	13	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	11	5	2
130	15	15	15	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17	18	18	18	18	18	18	14	11
145	17	18	18	19	19	19	19	20	20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	20	20	18
160	20	21	21	21	22	22	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	22	22	22	21
175	22	23	24	24	25	25	26	26	26	26	26	26	26	26	26	26	26	25	25	25	25	25	25	25	25	25	24	24	23	23
190	24	25	26	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	27	27	26	26	25	25	25	24
205	26	27	28	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29	28	28	27	27	26	26	25	25
220	28	29	30	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	31	30	30	29	28	28	27	27	26	26	26
235	28	30	32	33	35	35	35	35	35	35	35	35	35	34	34	34	34	33	33	32	31	30	30	29	29	28	28	27	27	26
250	29	31	33	35	37	37	37	37	37	37	37	37	37	37	37	37	36	35	34	33	32	31	31	30	30	29	28	28	27	27
265	28	31	33	36	38	39	39	39	39	39	39	39	39	39	39	39	37	36	35	34	33	33	32	31	30	30	29	29	28	28
280	27	30	33	36	39	41	41	41	41	41	41	41	41	41	41	40	39	38	37	36	35	34	33	32	31	31	30	29	29	28
295	25	29	32	36	39	41	44	44	44	44	44	44	44	43	43	42	41	40	38	37	36	35	34	33	32	32	31	30	30	29
310	22	27	31	35	38	41	44	46	46	46	46	46	46	46	46	45	43	42	40	39	38	37	36	35	34	33	32	31	31	30
325	12	24	28	33	37	40	44	47	48	48	48	48	48	48	48	47	45	44	42	41	39	38	37	36	35	34	33	32	32	31
340	7	12	25	30	34	39	43	47	49	50	50	50	50	50	50	50	48	46	44	43	41	40	38	37	36	35	34	33	33	32
355	0	7	13	26	31	36	41	45	49	50	52	53	53	53	53	52	51	48	46	45	43	41	40	39	38	37	36	35	34	33
370	0	0	7	14	27	33	38	43	48	50	52	53	55	55	55	55	54	51	49	47	45	44	42	41	39	38	37	36	35	34
385	0	0	0	8	14	29	35	40	45	50	52	53	55	56	57	57	57	54	52	50	48	46	44	42	41	40	38	37	36	35
400	0	0	0	0	8	15	30	36	42	47	52	53	55	56	58	59	59	58	55	53	50	48	46	44	43	41	40	39	38	37
415	0	0	0	0	0	8	16	31	38	44	50	53	55	56	58	59	61	61	59	56	53	51	49	47	45	43	42	40	39	38
430	0	0	0	0	0	0	9	16	33	39	46	52	55	56	58	59	61	62	63	59	56	54	51	49	47	45	44	42	41	40
445	0	0	0	0	0	0	0	9	17	34	41	48	54	56	58	59	61	62	64	64	60	57	54	52	50	48	46	44	43	42
460	0	0	0	0	0	0	0	0	9	17	35	43	50	56	58	59	61	62	64	65	64	61	58	55	52	50	48	46	44	43
475	0	0	0	0	0	0	0	0	0	10	18	36	44	51	58	59	61	62	64	65	65	65	62	58	56	53	51	48	47	45
490	0	0	0	0	0	0	0	0	0	0	10	19	38	46	53	59	61	62	64	65	65	65	65	62	59	56	53	51	49	48
505	0	0	0	0	0	0	0	0	0	0	0	10	19	39	47	55	61	62	64	65	65	65	65	65	63	60	57	54	52	50
520	0	0	0	0	0	0	0	0	0	0	0	0	11	20	40	49	57	62	64	65	65	65	65	65	65	64	60	57	55	53

CONVY-DCDC-800V-15-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
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
50	0	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
60	0	0	0	0	0	0	1	2	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4
70	0	0	0	0	0	0	0	2	3	3	4	4	4	4	5	5	5	5	5	5	5	5	5	5
80	0	0	0	0	0	0	0	1	3	4	4	5	5	5	6	6	6	6	6	6	7	7	7	7
90	0	0	0	0	0	0	0	0	2	3	5	5	6	6	7	7	7	7	8	8	8	8	8	8
100	0	0	0	0	0	0	0	0	1	3	5	6	6	7	8	8	8	9	9	9	9	10	10	10
115	0	0	0	0	0	0	0	0	0	2	3	6	7	8	9	9	10	10	11	11	12	12	12	12
130	0	0	0	0	0	0	0	0	0	0	2	4	7	8	9	10	11	12	12	13	14	14	14	15
145	0	0	0	0	0	0	0	0	0	0	0	2	4	8	10	11	12	13	14	15	15	16	17	17
160	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	11	12	14	15	16	17	18	19	19
175	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	10	12	14	15	17	18	19	20	21
190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	11	13	15	17	19	20	22	23
205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	12	15	17	19	21	23	24
220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	13	16	19	21	23	25
235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	14	17	20	23	25
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	15	19	22	24
265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	16	20	23
280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	17	21
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	18
310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9
325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
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
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
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
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
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
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
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
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
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
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
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
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
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

Vlow \ Vhigh	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	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
45	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0
50	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	1	0	0	0	0	0
60	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	4	3	0	0	0	0	0
70	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	2	0	0	0	0
80	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	5	3	0	0	0
90	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	8	6	2	0	0
100	10	10	10	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	10	4	2	0
115	13	13	13	13	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	13	6	2
130	15	16	16	16	16	17	17	17	17	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19	19	19	19	19	16	13
145	18	18	19	19	19	20	20	20	21	21	21	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	20
160	20	21	21	22	22	23	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23
175	22	23	24	25	25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	25	25	24	24	24
190	24	25	26	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	27	27	26	26	25	25	25	24
205	26	27	28	29	30	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	29	29	28	28	27	27	26	26	25	25
220	27	28	30	31	32	33	33	33	33	33	33	33	33	33	33	33	33	32	32	31	30	30	29	28	28	27	27	26	26	26
235	27	29	31	33	34	35	35	35	35	35	35	35	35	35	35	35	34	34	33	32	31	31	30	29	29	28	28	27	27	26
250	27	29	32	34	36	37	37	37	37	37	37	37	37	37	37	37	36	35	34	33	32	32	31	30	30	29	28	28	27	27
265	26	29	32	34	36	39	40	40	40	40	40	40	40	40	40	39	37	36	35	34	34	33	32	31	31	30	29	29	28	28
280	25	28	31	34	37	39	42	42	42	42	42	42	42	42	42	40	39	38	37	36	35	34	33	32	32	31	30	30	29	29
295	22	26	30	33	36	39	42	44	44	44	44	44	44	44	44	42	41	40	38	37	36	35	34	33	33	32	31	30	30	29
310	19	24	28	32	35	39	42	45	46	46	46	46	46	46	46	45	43	42	40	39	38	37	36	35	34	33	32	31	31	30
325	10	20	25	29	34	37	41	44	48	49	49	49	49	49	49	47	45	44	42	41	39	38	37	36	35	34	33	32	32	31
340	5	10	21	26	31	35	40	43	47	50	51	51	51	51	51	50	48	46	44	43	41	40	39	37	36	35	34	33	33	32
355	0	5	11	22	28	33	37	42	46	50	51	53	53	53	53	53	51	48	46	45	43	42	40	39	38	37	36	35	34	33
370	0	0	5	11	23	29	34	39	44	48	51	53	54	55	55	55	54	51	49	47	45	44	42	41	39	38	37	36	35	34
385	0	0	0	5	11	24	30	36	41	46	51	53	54	56	57	58	57	54	52	50	48	46	44	42	41	40	38	37	36	36
400	0	0	0	0	6	12	25	31	37	43	48	53	54	56	57	59	60	58	55	53	50	48	46	44	43	41	40	39	38	37
415	0	0	0	0	0	6	12	26	32	39	44	50	54	56	57	59	60	62	59	56	53	51	49	47	45	43	42	40	39	38
430	0	0	0	0	0	0	6	13	27	34	40	46	52	56	57	59	60	62	63	60	57	54	51	49	47	45	44	42	41	40
445	0	0	0	0	0	0	0	6	13	28	35	42	48	54	57	59	60	62	63	64	60	57	54	52	50	48	46	44	43	42
460	0	0	0	0	0	0	0	0	6	13	29	36	43	50	56	59	60	62	63	65	64	61	58	55	52	50	48	46	44	43
475	0	0	0	0	0	0	0	0	0	6	14	29	37	45	51	58	60	62	63	65	65	65	62	58	56	53	51	49	47	45
490	0	0	0	0	0	0	0	0	0	0	6	14	30	38	46	53	60	62	63	65	65	65	65	62	59	56	53	51	49	48
505	0	0	0	0	0	0	0	0	0	0	0	7	14	31	39	47	55	62	63	65	65	65	65	65	63	60	57	54	52	50
520	0	0	0	0	0	0	0	0	0	0	0	0	7	15	32	41	49	57	63	65	65	65	65	65	65	64	60	57	55	53

CONVY-DCDC-800V-15-RA-00_PowerMap - Buck Mode (kW)

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