Powermap

Convy Series V2.4

CONVY-DCDC-800V-11-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	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	0	0	0	0	0	0	0	0
40	0	0	0	1	2	2	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	3	0	0	0	0	0	0	0
45	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	5	5	5	5	6	6	6	6	6	6	6	5	5	5	5	5	5	5	4	3	0	0	0	0	0	0
50	0	0	0	2	3	4	6	6	6	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	5	2	0	0	0	0	0	0
60	0	0	0	1	3	5	7	10	11	11	12	12	12	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	13	13	13	13	13	13	13	13	13	13	10	8	1	0	0	0	0	0
70	0	0	0	0	1	4	6	12	13	14	15	15	16	16	17	17	17	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18	18	18	18	18	18	18	15	6	2	0	0	0	0
80	0	0	0	0	0	2	5	10	15	16	18	19	20	20	21	21	22	22	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	22	22	22	22	22	22	22	22	22	21	21	21	21	15	8	0	0	0	0
90	0	0	0	0	0	0	2	8	13	18	20	22	23	24	25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	25	25	25	25	25	25	25	25	24	24	23	23	23	22	22	20	4	0	0
100	0	0	0	0	0	0	0	0	6	10	20	22	24	26	28	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	28	28	28	28	28	28	28	28	28	27	27	26	26	25	25	24	24	23	23	13	6	0
115	0	0	0	0	0	0	0	0	0	7	13	24	27	30	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	32	32	32	31	31	31	30	30	29	28	28	27	27	26	26	25	25	18	8	
130	0	0	0	0	0	0	0	0	0	0	8	15	28	32	36	38	38	38	38	38	38	38	38	38	38	38	38	37	36	36	35	35	34	34	34	33	33	33	33	32	32	32	32	31	31	31	30	29	29	28	28	27	27	26
145	0	0	0	0	0	0	0	0	0	0	0	9	17	33	38	42	42	42	42	42	42	42	42	42	41	40	39	38	38	37	36	36	36	35	35	34	34	34	33	33	33	33	32	32	32	32	31	31	30	29	29	28	
160	0	0	0	0	0	0	0	0	0	0	0	0	11	19	37	43	47	47	47	47	47	47	46	45	43	42	41	40	40	39	38	38	37	37	36	36	35	35	35	34	34	34	33	33	33	33	32	32	32	32	31	31	30	
175	0	0	0	0	0	0	0	0	0	0	0	0	0	12	21	42	49	51	51	51	51	51	51	50	48	47	45	44	43	42	41	40	39	39	38	38	37	37	36	36	35	35	35	34	34	34	34	33	33	33	33	32	32	32
190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	24	46	53	56	56	56	56	56	55	52	50	48	47	46	44	43	42	41	41	40	39	39	38	38	37	37	36	36	36	35	35	35	34	34	34	34	33	33	33
205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	26	51	56	59	60	60	60	60	57	54	52	50	49	47	46	45	44	43	42	41	40	40	39	39	38	38	37	37	36	36	36	35	35	35	34	34	34	34	
220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	28	55	59	62	65	65	65	63	59	56	54	52	50	49	47	46	45	44	43	42	42	41	40	40	39	39	38	38	37	37	37	36	36	35	35	35	35	
235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	30	59	62	65	68	69	69	65	62	59	56	54	52	50	49	48	46	45	44	43	43	42	41	41	40	39	39	38	38	38	37	37	37	36	36	36	
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	33	62	65	68	71	74	72	68	64	61	58	56	54	52	50	49	48	47	46	45	44	43	42	42	41	40	40	39	39	38	38	38	37	37	37	
265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	35	65	68	71	74	77	75	70	66	63	60	58	55	53	52	50	49	48	47	46	45	44	43	43	42	41	41	40	40	39	39	38	38	38	
280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	37	68	71	74	77	80	78	73	68	65	62	59	57	55	53	52	50	49	48	47	46	45	44	44	43	42	42	41	40	40	40	39	39	
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	40	71	74	77	80	83	81	75	71	67	64	61	59	57	55	53	52	50	49	48	47	46	45	44	44	43	42	42	41	41	40	40	
310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	42	74	77	80	83	86	84	78	73	69	66	63	60	58	56	55	53	52	50	49	48	47	46	45	45	44	43	43	42	41	41	
325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	44	77	80	83	86	89	86	80	76	71	68	65	62	60	58	56	54	53	52	50	49	48	47	46	46	45	44	44	43	43	
340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	47	80	83	86	89	92	89	83	78	73	70	67	64	61	59	57	56	54	53	51	50	49	48	48	47	46	45	44	44	
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	26	49	83	86	89	92	95	92	85	80	76	72	68	66	63	61	59	57	56	54	53	51	50	49	48	48	47	46	46	
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	27	51	86	89	92	95	98	95	88	82	78	74	70	67	65	62	60	58	57	55	54	53	51	50	49	49	48	47	
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	29	54	89	92	95	98	101	98	91	85	80	76	72	69	66	64	62	60	58	57	55	54	53	51	50	49	49	
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	30	56	92	95	98	101	104	101	93	87	82	78	74	71	68	65	63	61	59	58	56	55	54	52	51	51	
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	31	58	95	98	101	104	107	103	96	89	84	80	76	72	69	67	64	62	61	59	57	56	55	54	53	
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	32	61	98	101	104	107	110	106	98	92	86	82	78	74	71	68	66	64	62	60	58	57	56	55	
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	33	63	101	104	107	110	110	109	101	94	88	83	79	76	73	70	67	65	63	61	60	58	57	
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	35	65	104	107	110	110	110	110	103	96	90	85	81	77	74	71	69	66	64	63	61	60	
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	36	68	107	110	110	110	110	110	106	99	92	87	83	79	76	73	70	68	66	64	63	
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	37	70	110	110	110	110	110	110	108	101	95	89	85	81	77	74	72	69	67	66	
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	38	72	110	110	110	110	110	110	110	103	97	91	87	82	79	76	73	70	69	
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	39	75	110	110	110	110	110	110	110	105	99	93	88	84	80	77	74	73	

CONVY-DCDC-800V-11-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	0	0	1	2	2	2	2	2	2	2	2	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	2	1	0	0	0	0	0	0
40	0	0	0	1	2	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	5	2	0	0	0	0	0	0	0
45	0	0	0	1	2	3	4	4	4	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	6	5	1	0	0	0	0	0
50	0	0	0	2	3	4	6	6	7	7	7	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	11	11	11	11	11	11	11	11	11	11	11	11	7	4	0	0	0	0	0	0
60	0	0	0	0	3	4	7	10	11	11	12	13	13	13	14	14	14	15	15	15	15	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	14	11	3	0	0	0	0	0
70	0	0	0	0	1	3	6	11	13	14	15	16	16	17	18	18	19	19	19	20	20	20	20	21	21	21	21	21	21	21	21	21	21	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19	8	4	0	0	0	0
80	0	0	0	0	0	1	4	10	14	16	18	19	20	21	22	22	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	23	23	23	23	23	23	23	23	22	22	22	22	22	22	22	19	11	1	0	0	0
90	0	0	0	0	0	0	2	8	12	18	20	22	23	24	26	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	26	26	26	26	26	26	26	25	25	25	25	25	25	25	25	24	24	24	24	6	1	0	
100	0	0	0	0	0	0	0	5	10	18	21	24	26	28	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29	29	29	29	28	28	28	28	28	28	27	27	27	27	27	27	27	16	7	2	
115	0	0	0	0	0	0	0	0	6	11	22	26	29	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	33	33	33	32	32	32	32	32	31	31	31	31	31	30	30	30	30	30	30	21	9	
130	0	0	0	0	0	0	0	0	0	7	13	26	31	34	38	39	39	39	39	39	39	39	39	39	39	38	38	37	36	36	35	35	35	34	34	34	33	33	33	33	32	32	32	32	32	31	31	31	31	31	31	30	30	
145	0	0	0	0	0	0	0	0	0	0	8	15	30	35	40	43	43	43	43	43	43	43	43	42	41	40	39	38	38	37	37	36	36	35	35	35	34	34	34	33	33	33	33	32	32	32	32	32	31	31	31	31	31	
160	0	0	0	0	0	0	0	0	0	0	0	9	17	33	40	46	48	48	48	48	48	48	46	45	43	42	41	40	40	39	38	38	37	37	36	36	36	35	35	34	34	34	34	33	33	33	33	33	32	32	32	32	32	
175	0	0	0	0	0	0	0	0	0	0	0	0	10	19	37	45	51	52	52	52	52	52	50	48	47	45	44	43	42	41	40	40	39	38	38	37	37	36	36	36	35	35	35	34	34	34	34	33	33	33	33	33	33	
190	0	0	0	0	0	0	0	0	0	0	0	0	0	10	20	41	49	55	57	57	57	57	55	52	50	48	47	46	44	43	42	42	41	40	39	39	38	38	37	37	37	36	36	36	35	35	35	35	34	34	34	34	33	33
205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	22	45	54	58	61	61	61	60	57	54	52	50	49	47	46	45	44	43	42	41	40	40	39	39	38	38	37	37	36	36	36	35	35	35	34	34	34	34	
220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	24	49	58	61	64	66	66	63	59	56	54	52	50	49	47	46	45	44	43	42	42	41	40	40	39	39	38	38	37	37	37	36	36	36	35	35	35	
235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	26	52	61	64	67	70	69	65	62	59	56	54	52	50	49	48	46	45	44	44	43	42	41	41	40	40	39	39	38	38	37	37	37	36	36	36	
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	27	56	64	67	70	73	72	68	64	61	58	56	54	52	50	49	48	47	46	45	44	43	42	42	41	40	40	39	39	38	38	37	37	37	
265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	29	60	67	70	73	76	75	70	66	63	60	58	55	53	52	50	49	48	47	46	45	44	43	43	42	41	41	40	40	39	39	39	38	38	
280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	31	63	70	73	76	79	78	73	68	65	62	59	57	55	53	52	50	49	48	47	46	45	44	44	43	42	42	41	41	40	40	39	39	
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	32	67	73	76	79	82	81	75	71	67	64	61	59	57	55	53	52	50	49	48	47	46	45	45	44	43	42	41	41	41	40	40	
310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	34	71	76	79	82	85	83	78	73	69	66	63	60	58	56	55	53	52	50	49	48	47	46	45	45	44	43	43	42	42	41	
325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	36	74	79	82	85	88	86	80	75	71	68	65	62	60	58	56	54	53	52	50	49	48	47	47	46	45	44	44	43	43	
340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	37	78	82	85	88	90	89	83	78	73	70	66	64	61	59	57	56	54	53	51	50	49	48	48	47	46	45	45	44	
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	19	39	81	85	88	91	93	92	85	80	75	72	68	65	63	61	59	57	55	54	53	51	50	49	48	48	47	46	46	
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	19	40	85	88	91	94	96	95	88	82	78	74	70	67	65	62	60	58	57	55	54	53	51	50	49	49	48	47	
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	20	42	88	91	94	97	99	98	90	84	80	75	72	69	66	64	62	60	58	56	55	54	53	51	50	50	49	
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	20	43	91	94	97	100	102	100	93	87	82	77	74	71	68	65	63	61	59	58	56	55	54	52	51	51	
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	21	45	94	97	100	102	105	103	95	89	84	79	76	72