Powermap

Convy Series V2.4

CONVY-DCDC-800V-15-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	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	0	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	1	0	0	0	0	0	0	0	0
45	0	0	0	0	0	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	0	0	0	0	0	0
50	0	0	0	0	1	1	2	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	4	2	1	0	0	0	0	0
60	0	0	0	0	0	1	2	4	5	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	7	7	7	7	6	4	0	0	0	0	0
70	0	0	0	0	0	0	2	3	6	7	7	8	8	9	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	8	3	1	0	0	0
80	0	0	0	0	0	0	0	3	6	8	9	9	10	10	11	11	12	12	12	12	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	8	4	0	0	0
90	0	0	0	0	0	0	0	1	4	7	10	11	12	12	13	14	14	14	15	15	15	15	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	14	11	2	0	0
100	0	0	0	0	0	0	0	0	3	6	10	12	13	14	15	16	16	17	17	18	18	18	19	19	19	19	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	17	7	3	0	0
115	0	0	0	0	0	0	0	0	0	4	7	13	15	16	17	19	20	21	21	22	23	23	23	24	24	25	25	25	26	26	26	26	26	27	27	27	27	27	27	27	27	27	27	27	28	28	28	28	28	28	22	10	4	
130	0	0	0	0	0	0	0	0	0	0	4	8	15	17	19	21	22	24	25	26	27	28	28	29	30	30	31	31	31	32	32	33	33	33	33	33	34	34	34	34	34	34	34	35	35	35	35	35	35	35	35	28	22	
145	0	0	0	0	0	0	0	0	0	0	0	5	9	17	20	22	25	26	28	29	31	32	33	34	35	36	36	37	37	38	38	39	39	40	40	41	41	41	41	42	42	42	42	42	42	42	42	42	42	41	41	40	35	
160	0	0	0	0	0	0	0	0	0	0	0	0	6	10	20	23	26	28	30	33	34	36	37	39	40	41	42	43	44	44	45	46	46	47	47	47	47	46	46	46	46	46	46	46	46	46	46	46	45	45	44	43	42	
175	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11	22	26	29	32	35	37	39	41	43	45	46	47	49	50	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	50	49	48	47	46	46
190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	13	25	29	33	36	39	42	44	47	49	51	52	54	55	56	56	56	56	56	56	56	55	55	55	55	55	55	55	55	55	55	54	53	52	52	51	50	49	49
205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	14	27	32	36	40	44	47	50	52	55	57	59	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	59	58	57	56	55	54	53	52	51	50	50
220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	15	30	35	40	44	48	52	55	58	61	63	65	65	65	65	65	65	64	64	64	64	64	64	64	64	63	62	60	59	58	57	55	54	54	52	52	51
235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	16	32	38	43	48	52	57	60	64	67	69	69	69	69	69	69	69	69	69	69	69	69	69	69	67	65	64	62	61	60	58	57	56	55	54	53	52
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	17	34	41	47	52	57	62	66	70	73	74	74	74	74	74	74	73	73	73	73	73	72	70	68	66	64	63	62	60	59	58	57	55	54	54
265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	19	37	44	51	56	62	67	71	76	78	78	78	78	78	78	78	78	78	78	77	75	72	70	69	67	65	64	62	61	60	58	57	56	55
280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	20	40	47	54	61	67	72	77	82	83	83	83	83	83	82	82	82	82	81	78	76	73	71	69	67	66	64	63	61	60	59	57	57	
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	21	42	50	58	65	71	77	83	87	87	87	87	87	87	87	87	85	82	79	77	74	72	70	68	67	65	63	62	61	59	58	
310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	22	45	53	61	69	76	82	88	92	92	92	91	91	91	91	91	89	86	83	80	77	75	73	71	69	67	65	64	62	61	60	
325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	24	47	56	65	73	81	88	94	96	96	96	96	96	96	94	90	87	84	81	78	76	74	72	70	68	66	64	63	62	
340	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	50	60	69	77	86	93	98	101	101	101	101	101	100	100	95	92	88	85	82	79	77	74	72	70	68	67	65	64	
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	14	26	52	63	73	82	90	98	101	104	105	105	105	105	105	101	97	93	89	86	83	80	78	75	73	71	69	67	66	
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	15	27	55	66	76	86	95	101	104	107	110	109	109	109	107	102	98	94	90	87	84	81	78	76	74	72	70	68	
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	15	29	57	69	80	90	100	104	107	110	113	114	114	114	109	104	99	95	91	88	85	82	79	77	74	72	71	
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	16	30	60	72	84	95	104	107	110	113	116	118	118	116	110	105	100	96	92	89	86	83	80	77	75	73	
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	16	31	63	76	88	99	107	110	113	116	119	120	120	120	117	112	106	101	97	93	90	86	83	81	78	76
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	17	32	65	79	91	103	110	113	116	119	120	120	120	119	113	107	103	98	94	91	87	84	81	80	
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	18	34	68	82	95	108	113	116	119	120	120	120	120	120	114	109	104	99	95	91	88	85	83	
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	18	35	70	85	99	112	116	119	120	120	120	120	120	120	115	110	105	100	96	92	89	87	
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	19	36	73	88	103	116	119	120	120	120	120	120	120	117	111	106	101	97	93	91	
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	20	37	75	91	107	119	120	120	120	120	120	120	120	118	112	107	102	98	95	
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	20	39	78	95	110	120	120	120	120	120	120	120	119	113	108	103	100	
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	21	40	80	98	114	120	120	120	120	120	120	120	120	120	114	109	106	

CONVY-DCDC-800V-15-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	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	2	2	2	2	2	2	2	2	2	2	2	2	2	1	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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	0	0	0	0	0	0	0
45	0	0	0	0	0	1	1	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	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	1	1	2	3	3	4	4	4	4	4	4	4	4	4	4	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	4	2	0	0	0	0	0	0
60	0	0	0	0	0	1	2	4	5	6	6	6	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	7	6	1	0	0	0	0	0
70	0	0	0	0	0	0	2	3	6	7	7	8	8	9	9	9	10	10	10	10	10	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	10	4	2	0	0	0
80	0	0	0	0	0	0	0	2	5	8	9	9	10	11	11	12	12	12	13	13	13	13	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	6	0	0	0	0
90	0	0	0	0	0	0	0	1	4	7	9	11	12	12	13	14	14	15	15	16	16	16	17	17	17	17	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19	19	20	20	20	20	20	20	20	16	13	3	0	0
100	0	0	0	0	0	0	0	0	3	5	10	12	13	14	15	16	17	17	18	18	19	19	20	20	20	21	21	21	21	22	22	22	22	23	23	23	23	23	23	23	23	23	24	24	24	24	24	24	24	24	9	4	0	
115	0	0	0	0	0	0	0	0	0	3	6	12	14	16	17	18	20	21	21	22	23	24	24	25	25	26	26	27	27	27	28	28	28	29	29	29	29	29	30	30	30	30	30	30	31	31	31	31	31	31	26	11	5	
130	0	0	0	0	0	0	0	0	0	0	4	7	14	17	19	20	22	24	25	26	27	28	29	30	30	31	32	32	33	33	34	34	35	35	35	36	36	36	37	37	37	38	38	38	38	38	39	39	39	39	39	39	32	25
145	0	0	0	0	0	0	0	0	0	0	0	4	8	16	19	22	24	26	28	29	31	32	33	34	35	36	37	38	39	39	40	41	41	42	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	39	
160	0	0	0	0	0	0	0	0	0	0	0	0	5	9	18	22	25	27	30	32	34	36	37	39	40	41	42	44	45	45	46	47	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	47	46	
175	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	20	24	28	31	34	36	39	41	43	44	46	48	49	50	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	51	50	49	48	48	
190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11	22	27	31	34	38	41	43	46	48	50	52	54	56	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	55	54	54	53	52	51	50	49	49	
205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	24	29	34	38	42	45	48	51	54	56	58	61	61	61	61	61	61	61	61	61	61	61	61	61	61	60	58	57	56	55	54	53	52	51	51	50	
220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	13	26	32	37	42	46	50	53	56	59	62	65	66	66	66	66	66	66	66	66	66	66	66	66	64	63	62	60	59	58	57	56	55	54	53	52	51
235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	14	28	35	40	45	50	54	58	62	65	68	70	70	70	70	70	70	70	70	70	70	70	69	67	65	64	62	61	60	59	57	56	55	54	53	53
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	15	31	37	43	49	54	59	63	67	71	75	75	75	75	75	75	75	75	75	75	74	72	70	68	66	65	63	62	60	59	58	57	56	55	54
265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	16	33	40	46	53	58	63	68	73	77	79	79	79	79	79	79	79	79	79	79	77	75	73	71	69	67	65	64	62	61	60	58	57	56	55
280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	17	35	42	49	56	62	68	73	78	83	84	84	84	84	84	84	84	84	81	78	76	74	71	69	68	66	64	63	61	60	59	58	57	
295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	18	36	45	53	60	66	73	79	84	88	88	88	88	88	88	88	88	85	82	79	77	74	72	70	68	67	65	64	62	61	59	58	
310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	18	38	47	56	63	71	77	84	90	93	93	93	93	93	93	93	89	86	83	80	78	75	73	71	69	67	66	64	63	61	60	
325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	19	40	50	59	67	75	82	89	95	97	97	97	97	97	94	91	87	84	81	79	76	74	72	70	68	66	65	63	62	
340	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	52	62	71	79	87	94	100	102	102	102	102	102	100	96	92	88	85	82	79	77	75	72	70	69	67	65	64	
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	10	21	44	55	65	74	83	92	99	103	106	106	106	106	106	101	97	93	89	86	83	80	78	75	73	71	69	67	66	
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	10	22	46	57	68	78	87	96	103	106	109	111	111	107	102	98	94	90	87	84	81	78	76	74	72	70	69	
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	11	23	48	60	71	82	91	101	106	109	111	114	115	114	109	104	99	95	91	88	85	82	79	77	74	72	71	
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	11	23	50	62	74	85	96	106	109	112	114	117	120	116	110	105	100	96	92	89	86	83	80	77	75	74	
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	11	24	52	65