TAME-POWER
TRONICO

CONVY-DCDC-800V-15-RB-00 (DOUBLE CONVERTER)

Maximum output power according to Vlow side and Vhigh side

Map power capability according to low side and high side voltage

- Tame-Power DC/DC 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.

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

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									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						1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0
45						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	2	2	2	2	1	0	0	0	0	0	0	0	0	0
50				1	1	2	3	3	3	3	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	2	1	0	0	0	0	0	0
60					1	2	3	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	7	7	5	4	0	0	0	0	0	0
70							1	3	6	6	7	8	8	8	8	9	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	9	9	9	7	3	1	0	0	0
80								2	5	7	8	9	10	10	11	11	11	11	12	12	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	8	4	0	0	0
90								1	4	6	9	10	11	12	13	13	14	14	14	15	15	15	15	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	13	10	2	0	0
100									3	5	10	11	13	14	15	15	16	16	17	17	18	18	19	19	19	19	19	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	16	7	3	0
115										3	6	12	14	16	17	18	19	20	21	21	22	23	23	23	24	24	25	25	25	25	26	26	26	26	26	26	26	27	27	27	27	27	27	27	27	27	27	27	27	27	27	22	9	4
130											4	7	15	17	19	21	22	23	24	26	26	27	28	29	29	30	30	31	31	31	32	32	32	33	33	33	33	33	34	34	34	34	34	34	34	35	35	35	35	35	35	28	22
145												5	9	17	20	22	24	26	28	29	30	32	33	33	34	35	36	37	37	38	38	39	39	39	40	40	40	41	41	41	41	42	41	41	41	41	41	41	41	41	41	41	40	40	35
160													5	10	19	23	25	28	30	32	34	36	37	38	39	41	42	42	43	44	45	45	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	45	44	43	43	42
175														6	11	22	26	29	32	34	37	39	41	43	44	46	47	48	49	50	51	51	51	51	51	51	51	51	51	51	51	50	50	50	50	50	50	50	50	49	48	47	46	45
190															7	12	24	29	32	36	39	41	44	46	48	50	52	53	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	54	53	52	51	50	49	49	48
205																7	13	27	31	36	40	43	46	49	52	54	56	58	60	60	60	60	60	60	60	60	60	60	60	60	59	59	59	59	58	57	55	55	54	53	52	51	50	49
220																	8	15	29	35	39	44	48	51	55	58	60	63	64	64	64	64	64	64	64	64	64	64	64	64	64	64	63	61	60	59	57	56	55	54	53	52	51	51
235																		8	16	32	38	43	48	52	56	60	63	66	69	69	69	69	69	69	69	69	69	68	68	68	68	66	65	63	62	60	59	58	57	56	55	54	53	52
250																			9	17	34	41	47	52	57	61	65	69	73	73	73	73	73	73	73	73	73	73	73	73	71	69	67	66	64	62	61	60	59	57	56	55	54	53
265																				10	18	37	44	50	56	61	66	71	75	78	78	78	78	78	78	77	77	77	74	72	70	68	66	65	63	62	60	59	58	57	56	55	
280																					10	20	39	47	54	60	66	72	77	81	82	82	82	82	82	82	82	82	80	78	75	73	71	69	67	65	64	62	61	60	58	57	56
295																						11	21	42	50	57	64	71	77	82	87	87	87	87	87	87	86	86	84	81	79	76	74	72	70	68	66	64	63	62	60	59	58
310																							11	22	44	53	61	69	75	82	88	91	91	91	91	91	91	91	89	85	83	80	77	75	73	71	69	67	65	63	62	61	60
325																								12	23	47	56	65	73	80	87	94	96	96	96	95	95	95	94	90	87	83	81	78	75	73	71	69	67	66	64	63	62
340																									13	24	49	59	68	77	85	93	97	100	100	100	100	99	95	91	88	85	82	79	76	74	72	70	68	66	65	64	
355																										14	26	52	62	72	81	90	97	100	103	105	105	105	105	104	101	96	92	89	86	82	80	77	75	73	71	69	67	66
370																											14	27	54	66	76	86	95	100	103	106	109	109	109	109	107	102	97	93	90	87	83	81	78	76	73	71	69	68
385																												15	28	57	69	80	90	100	103	106	109	112	114	114	113	108	103	99	95	91	87	84	81	79	76	74	72	70
400																													15	29	60	72	84	94	103	106	109	112	115	118	118	116	110	105	100	96	92	88	85	82	80	77	75	73
415																														16	31	62	75	87	99	106	109	112	115	118	120	120	117	111	106	101	97	93	89	86	83	80	78	76
430																															17	32	65	78	91	103	109	112	115	118	120	120	120	118	112	107	102	98	94	90	87	84	81	79
445																																17	33	67	82	95	107	112	115	118	120	120	120	120	120	114	108	103	99	95	91	88	85	83
460																																	18	34	70	85	99	112	115	118	120	120	120	120	120	120	115	109	104	100	96	92	88	86

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								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	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
40					1	1	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	3	3	3	3	3	3	3	3	3	3	3	3	3	2	1	0	0	0	0	0	0	0
45					1	1	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	4	4	4	4	4	4	4	4	4	4	4	3	2	0	0	0	0	0	0	0	0	0
50					1	2	3	3	3	3	3	4	4	4	4	4	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	3	2	0	0	0	0	0	0	0	0
60					1	2	3	5	5	6	6	6	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	7	5	1	0	0	0	0	0	0	0
70						1	3	6	6	7	8	8	8	9	9	9	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	10	4	1	0	0	0	0	0
80							2	5	7	8	9	10	10	11	11	12	12	12	12	13	13	13	13	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	10	5	0	0	0	0
90							1	4	6	9	10	11	12	13	13	14	14	15	15	16	16	16	16	17	17	17	17	17	18	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19	19	19	19	16	12	3	0	0	0
100								2	5	10	11	12	14	15	15	16	17	17	18	18	19	19	20	20	20	20	21	21	21	21	22	22	22	22	22	23	23	23	23	23	23	23	24	24	24	24	24	24	19	8	3	0
115									3	6	11	14	15	17	18	19	20	21	22	23	23	24	24	25	25	26	26	27	27	27	28	28	28	28	29	29	29	29	30	30	30	30	30	30	31	31	31	31	25	11	4
130										3	7	14	16	18	20	22	23	24	26	27	28	28	29	30	31	31	32	32	33	33	34	34	35	35	35	36	36	36	37	37	37	38	38	38	38	38	38	38	38	32	25
145											4	8	16	19	21	23	25	27	29	30	32	33	34	35	36	37	38	38	39	40	40	41	41	42	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	39
160												4	9	18	21	24	27	29	32	33	35	37	38	40	41	42	43	44	45	46	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	46
175													5	10	20	24	27	30	33	36	38	40	42	44	46	47	49	50	51	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	51	50	49	48	48	47	
190														5	11	22	26	30	34	37	40	43	45	48	50	52	54	55	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	54	53	52	51	50	50	49	48
205															6	12	24	29	33	38	41	45	48	51	53	56	58	60	61	61	61	61	61	61	61	61	61	61	61	61	61	60	59	58	57	56	55	54	53	52	51	50	50
220																6	13	26	32	37	41	45	49	53	56	59	62	64	65	65	65	65	65	65	65	65	65	65	65	65	64	63	61	60	59	58	56	55	54	53	52	51	51
235																	7	13	28	34	40	45	49	54	58	61	65	68	70	70	70	70	70	70	70	70	70	70	70	68	67	65	63	62	61	59	58	57	56	55	54	53	52
250																		7	14	30	37	43	48	54	58	63	67	71	74	74	74	74	74	74	74	74	74	74	73	71	69	67	66	64	63	61	60	59	58	56	55	54	54
265																			7	15	32	39	46	52	58	63	68	72	77	79	79	79	79	79	79	79	79	79	77	74	72	70	68	67	65	63	62	61	59	58	57	56	55
280																				8	16	34	42	49	56	62	68	73	78	83	83	83	83	83	83	83	83	80	78	75	73	71	69	67	66	64	63	61	60	59	57	57
295																					8	17	36	44	52	59	66	72	78	84	88	88	88	88	88	88	88	84	81	79	76	74	72	70	68	66	65	63	62	60	59	58
310																						8	18	38	47	55	63	70	77	83	89	92	92	92	92	92	92	89	86	83	80	77	75	73	71	69	67	65	64	62	61	60
325																							9	19	40	49	58	67	74	82	88	95	97	97	97	97	97	97	94	90	87	84	81	78	76	73	71	69	67	66	64	63	62
340																								9	20	42	52	61	70	79	86	94	99	101	101	101	101	101	99	95	91	88	85	82	79	77	74	72	70	68	66	65	64
355																									10	21	44	55	65	74	83	91	99	102	105	106	106	106	105	101	96	92	89	86	83	80	77	75	73	71	69	67	66
370																										10	21	46	57	68	78	87	96	102	105	108	110	110	110	107	102	98	94	90	87	84	81	78	76	73	71	69	68
385																											10	22	48	60	71	81	91	101	105	108	111	114	115	114	108	103	99	95	91	87	84	82	79	76	74	72	71
400																												11	23	49	62	74	85	95	105	108	111	114	117	119	116	110	105	100	96	92	88	85	82	80	77	75	73
415																													11	24	51	64	77	88	99	108	111	114	117	120	120	117	111	106	101	97	93	89	86	83	80	78	76
430																														11	25	53	67	80	92	104	111	114	117	120	120	120	119	113	107	102	98	94	90	87	84	81	79
445																															11	25	55	69	83	95	108	114	117	120	120	120	120	120	114	108	103	99	95	91	88	85	83
460																																12	26	57	71	86	99	112	117	120	120	120	120	120	120	115	109	104	100	96	92	88	86
475																																	12	27	58	74	89	102	116	120	120	120	120	120	120	116	111	106	101	97	93	90
490																																		12	27	60	76	91	106	120	120	120	120	120	120	120	118	112	106	102	98	95
505																																			13	28	62	78	94	110	120	120	120	120	120	120	120	119	113	108	103	100
520																																				13	29	63	81	97	113	120	120	120	120	120	120	120	120	114	109	105

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

Each product reference has its own Power Map. For any detailed information please contact our sales team:
contact@tame-power.com

All the information contained in this document is the exclusive property of TAME-POWER and cannot be reproduced or communicated with a third party without the express written authorization of TAME-POWER. TAME-POWER reserves the right to make any changes without prior notice. Tame-Power is a registered trademark of TRONICO.
STRICTLY CONFIDENTIAL TAME-POWER