CONVY-DCDC-800V-07-RB-00 (DOUBLE CONVERTER)

Maximum output power according to Vlow side and Vhigh side

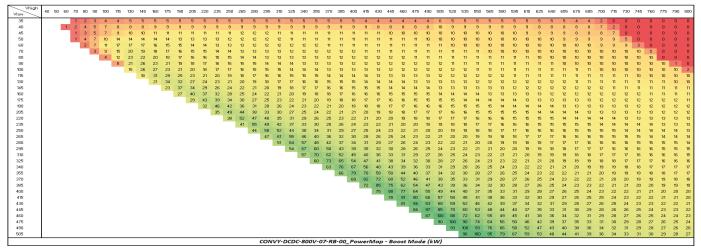
Map power capability according to low side and high side voltage

- 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.

Vh	igh side				DCDC converter operates at Vlow side = 110V, Vhigh side = 180													
Vlow	side				1													
	↓ L	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										

Max output power (kW) when the

Boost mode (in kW)



Buck mode (in kW)

								-						<u> </u>																																														
Vhigh Vlow	40	50	60	70	80	90	100	11	5	130	145	5 1	60	175	190	20	15 2	20	235	250	265	280	295	310	32	5 3	840	355	370	385	400	415	43	44	5 48	50 45	75 4	490	505	520	535	550	565	580	595	610	625	5 640	0 65	55 6	70 68	15 7	700	715	730	745	760	775	790	800
35				1	2	3	4	5		5	5		5	6	6	6	;	6	6	6	6	6	6	6	e		6	6	6	7	7	7	7	7		, ,	7	7	9	9	9	9	9	9	9	8	8	8	8	3 1	B 8	1	6	3	0	0	0	0	0	0
40	1			2	з	5	7	8		9	9		9	10	10	10	3	10	10	-11	11	10	10	10	- 10	3	10	10	10	10	10	10	10	10	1	0 1	10	10	10	10	10	10	9	9	9	9	9	9	9	э :	9 9	i (9	5	2	0	0	0	0	0
45	1			-1	3	5	- 7	9		10	- 11		11	12	12	12	2	12	12	12	12	12	12	12	Т	1	11	11	11	- 11	- 11	11	11	11	1	1 1	n	11	11	11	11	- 11	- 11	11	11	- 11	- 11	10	X	0 1	0 1	5 7	10	10	3	0	0	0	0	0
50	1			1	4	7	10	14		14	14		14	14	13	13	3	13	13	12	12	12	12	12	τ	2	12	11	11	11	- 11	11	11	11	1	1 1	11	11	11	11	11	11	11	11	11	- 11	- 11	11	1	n :	11 1	1 (11	11	9	0	0	0	0	0
60	1				2	6	11	1		17	17		16	15	15	14	4	14	13	13	13	13	12	12	u	2	12	12	12	12	12	11	11	11	1	1 1	11	11	11	11	-11	- 11	11	11	11	- 11	- 11	11	T	n :	11 1	1 - 1	11	11	11	6	1	0	0	0
70	1					2	8	ĸ		20	19		18	17	16	15	5	15	14	14	13	13	13	13	T.	3	12	12	12	12	12	12	12	12	1	2 1	n	11	11	11	- 11	- 11	- 11	11	11	- 11	- 11	11	T	n .	11 1	1 (п	11	11	11	9	0	0	0
80	1						3	T		23	22		20	18	17	16	6	16	15	15	14	14	14	13	1	3	13	13	13	12	12	12	12	12	1	2 1	12	12	12	12	12	12	12	11	11	- 11	-11	- 11	T	1 1	11 1	1 (11	11	11	11	11	2	0	0
90 100	1							4	_	18	26			21	19	16	3	17	16	16	15	15	14	14	14	1	14	13	13	13	13	13	12	12	1	2 1	12	12	12	12	12	12	12	12	12	12	12	- 11	1	1 1	11 1		11	11	11	11	-11	11	3	0
100	1									12	23			23	21	21	0	18	17	17	16	15	15	15	1	1	14	14	14	13	13	13	13	13	1	3 1	13	12	12	12	12	12	12	12	12	12	12	12	1	2 1	2 1			11	- 11	11		1	11	4
130	1										15			29	25	2	3	21	20	19	18	17	16	16	1	2	75	15	14	14	14	14	14	13	1	3 1	13	13	13	13	13	12	12	12	12	12	12	12	L.	2 1	2 1	2	12	12	12	12		11	- 11	n
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145	1													13	36				26 31	24	22 25	21	20	19	1	5	1/	1/	16	16	15	15	15	19	1	4 1	14	14	14	14	13	13	13	13	13	13	13	13	K	3 1	2 1	<u> </u>	12	12	12	12	12	12	12	12
160	1														-21		3		31	28 34	25	23	22	21	2		21	18	18	17	12	16	16	15	1		in ci	10	10	14	14	14	14	14	13	13	13	13	L.	3 1	3 1. n -	<u> </u>	13	13	12	12	12	12	12	12
190	1															2.			39 46	42	30	31	25	23	_	2	21	20	19	18	18	12	1/	10			15	5	10	10	15	14	14	14	14	14	14	14		3 1	3 1		13	13	13	13	13	13	13	13
205	1																		40		44	38	33	30			23 25	24	22	20	21	20	10	10			17	17	12	10	10	10	10	10	10	19	19	- 14		4 1	N 10		10	10	1.5	10	10	10	10	10
220	1																			29		47		35				26	25	23	22	20	20	20		o 1 0 1	10	10	*0	17	17	17	10		10	10	10	10				1	14	14	14	1.5	13	10	14	12
235	1																			20		54	49	42				30	27	25	24	23				5 I 0 7	10	10	10	10	10	17	17	17	10	10	10	10			ы н Б 11		19	14	14	14	14	14	14	14
250	1																				- 01	33		52		-	20	24	31	20	27	25	24	23	_	2 2	20	20	20	19	10	10	10	17	17	17	10	10	- 2	6 1	6 1	6	15	15	5	16	15	14	14	14
265	1																					- 55	34				46	40	36	32	30	28	26	25				22	21	20	20	19	19	19	18	17	17	17	÷.,	6 1	6 1	é i	16	15	15	15	15	15	15	15
290	1																							36				48	41	37	33	31	29					23	22	21	21	20	20	19	19	18	18	18	1	7 1	7 1	, ,	16	16	16	16	15	15	15	5
295	1																								3			59	50	43	38	35	32	30	2	8 2		25	24	23	22	21	21	20	20	19	19	18	-	8 1	7 1	7	17	17	16	16	16	16	16	6
310	1																										39	69	62	52	45	40	36	33	3	1 2	9	27	26	25	24	23	22	21	21	20	19	19	15	9 1	8 1	8	18	17	17	17	16	16	16	16
325	1																											41	72	64	54	46	41	37	3	4 3	32	30	28	27	25	24	23	23	22	21	21	20	15	9 1	9 1	a i	18	18	18	17	17	17	16	16
340	1																												43	75	67	56	48	43	3	9 3	5	33	31	29	27	26	25	24	23	22	22	21	21	0 2	0 1	a i	19	19	18	18	18	17	17	17
355	1																													44	78	69	58	50	4	4 4	10	36	34	32	30	28	27	26	25	24	23	22	2	2 2	21 2	a :	20	19	19	19	18	18	18	17
370	1																														46	81	72	60	5	1 4	16	41	38	35	32	31	29	27	26	25	24	23	2	3 2	2 2	1	21	20	20	19	19	19	18	18
385	1																															47	84	75	6	2 5	53	47	42	39	36	33	31	30	28	27	26	25	2	4 2	3 2	з :	22	21	21	20	20	19	19	19
400	1																																48			7 6	54	55	48	44	40	37	34	32	30	29	28	26	2	5 2	5 2	4 7	23	22	22	21	21	20	20	20
415	1																																	50	9	0 8	10	66	57	50	45	41	38	35	33	31	30	28	2	7 2	6 2	5 7	24	23	23	22	22	21	21	20
430	1																																		5	1 9		82	68	58	51	46	42	39	36	34	32	30	2	9 2	8 2	7 1	26	25	24	23	23	22	21	21
445	1																																			5		95	85	70	60	53	47	43	40	37	35	33	3	11 2	9 2	8 7	27	26	25	24	24	23	22	22
460	1																																					54	98	87	72	61	54	49	44	41	38	35	3	3 3	2 3	0 7	29	28	27	26	25			23
475	1																																						55		90	74	63	56	50	45	42	39	3	6 3				29		27	26			24
490	1																																							56			76	65	57	51	46	43	- 41		17 3		33	32	30	29	28		26	25
505	1																																								57	100		78	67	58	52				0 3					31				27
520																																										58	100	97	80	68	60	53	4	94	5 4	1 3	39	36	34	33	31	30	29	28
																							co	VVY	-DC	DC-	800	v-v	7-R	B-00	<u>_</u> Po	wei	Ma	p - E	Buck	Mo	ode	(kV	V)													_								

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

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