ATevo Single Phase Input Current and Circuit Breaker Table

JF5072-01

DC Output Ratings		Maximum AC Input Current									AC Circuit Breaker Ampere Rating									AC Circuit Breaker AIC Rating									DC Circuit Breaker Rating	DC Breaker AIC Rating
Voltage	Amperes	120	208	240	480	550	600	220	380	416	120	208	240	480	550	600	220	380	416	120	208	240	480	550	600	220	380	416		
24Vdc	6	5	3	3	3	3	3	3	3	3	15	15	15	15	15	15	15	15	15	A	A	A	B	C	C	A	B	B	10/15	J
	12	7	5	4	3	3	3	5	4	4	15	15	15	15	15	15	15	15	15	A	A	A	B	C	C	A	B	B	20	J
	16	9	5	5	4	4	4	6	4	4	15	15	15	15	15	15	15	15	15	A	A	A	B	C	C	A	B	B	25	J
	20	11	6	6	4	4	4	6	5	4	15	15	15	15	15	15	15	15	15	A	A	A	B	C	C	A	B	B	32/30	J
	25	13	7	7	4	4	4	7	5	5	20	15	15	15	15	15	15	15	15	A	A	A	B	C	C	A	B	B	40	J
	30	15	9	8	5	5	4	9	6	5	20	15	15	15	15	15	15	15	15	A	A	A	B	C	C	A	B	B	50	J
	40	20	12	10	6	6	5	11	7	7	25	15	15	15	15	15	15	15	15	A	A	A	B	C	C	A	B	B	63/60	J
	50	25	15	13	7	6	5	14	9	8	40	20	20	15	15	15	20	15	15	D	D	D	E	C	C	D	E	E	80	K
	75	39	21	18	10	9	9	22	13	12	50	30	30	15	15	15	30	20	20	F	F	F	B	C	C	F	B	B	125	K
	100	53	31	27	14	12	11	30	18	16	70	40	40	20	20	20	40	25	25	F	F	F	B	C	C	F	B	B	150	L
48Vdc	6	9	6	5	4	5	5	6	4	4	15	15	15	15	15	15	15	15	15	A	A	A	B	C	C	A	B	B	10/15	J
	12	16	10	8	5	5	5	10	6	6	20	15	15	15	15	15	15	15	15	A	A	A	B	C	C	A	B	B	20	J
	16	20	12	10	6	6	6	12	8	7	25	15	15	15	15	15	15	15	15	A	A	A	B	C	C	A	B	B	25	J
	20	23	14	12	7	7	7	13	9	8	30	20	20	15	15	15	20	15	15	A	A	A	B	C	C	A	B	B	32/30	J
	25	27	16	14	8	8	7	15	10	9	40	20	20	15	15	15	20	15	15	A	A	A	B	C	C	A	B	B	40	J
	30	27	16	14	8	8	8	15	10	9	40	20	20	15	15	15	20	15	15	A	A	A	B	C	C	A	B	B	50	J
	40	36	21	18	10	9	8	20	12	11	50	30	30	15	15	15	30	15	15	A	A	A	B	C	C	A	B	B	63/60	J
	50	45	26	23	12	11	10	25	15	14	60	35	35	15	15	15	35	20	20	D	D	D	E	C	C	D	E	E	80	K
	75	66	38	36	17	15	14	37	22	20	90	50	50	25	20	20	50	30	30	F	F	F	B	C	C	F	B	B	125	K
	100	91	54	47	24	21	19	52	30	28	125	70	70	30	30	30	70	40	40	D	F	F	B	C	C	F	B	B	150	L
130Vdc	6	14	8	7	5	6	6	8	6	5	20	15	15	15	15	15	15	15	15	A	A	A	B	C	C	A	B	B	10/15	J
	12	33	20	17	10	9	8	20	12	11	50	25	25	15	15	15	25	15	15	A	A	A	B	C	C	A	B	B	20	J
	16	39	23	20	11	10	10	23	14	13	50	30	30	15	15	15	30	20	20	A	A	A	B	C	C	A	B	B	25	J
	20	45	27	23	12	11	10	27	15	15	63	40	40	15	15	15	40	20	20	A	A	A	B	C	C	A	B	B	32/30	J
	25	50	32	28	14	13	12	32	17	17	63	40	40	20	20	20	40	25	25	A	A	A	B	C	C	A	B	B	40	J
	30	62	36	31	16	16	15	35	21	19	80	50	50	20	20	20	50	30	30	D	A	A	B	C	C	A	B	B	50	J
	40	86	47	41	21	18	17	44	26	24	110	60	60	30	25	25	60	35	35	D	F	F	B	C	C	F	B	B	60	J
	50		58	51	26	22	21	52	32	30		80	80	35	30	30	80	40	40		F	F	B	C	C	F	B	B	80	J
	75		89	78	39	34	31	84	50	45		125	125	50	50	50	125	70	70		D	D	B	C	C	D	E	E	125	K
260Vdc	6	31	19	17	9			19	12	11	40	25	25	15			25	15	15	G	G	G	H			G	H	H	10	M
	12		36	32	17			33	20	19		50	50	25			50	25	25		G	G	H			G	H	H	20	M
	16	84	48	42	24	20	18	46	28	26	125	60	60	30	30	30	60	40	40	D	F	F	B	C	C	F	B	B	25	M
	25		80	75	30	27	25	69	41	38		100	100	40	40	40	100	60	60		F	F	B	C	C	F	B	B	40	M

AC BREAKER AIC REFERENCE KEY							
	A	B	C	D	E	F	G	H
Standard	14 kAIC	10 kAIC	n/a	n/a	n/a	5 kAIC	14 kAIC	10 kAIC
Medium	25 kAIC	18 kAIC	14 kAIC	25 kAIC	18 kAIC	25 kAIC	n/a	n/a
High	65 kAIC	35 kAIC	18 kAIC	65 kAIC	35 kAIC	65 kAIC	n/a	n/a
Ultimate	100 kAIC	65 kAIC	25 kAIC	100 kAIC	65 kACI	100 kAIC	n/a	n/a

DC BREAKER AIC REFERENCE KEY			
J	K	L	M
5 kAIC	n/a	n/a	5 kAIC
10 kAIC	10 kAIC	n/a	n/a
20 kAIC	20 kAIC	20 kAIC	n/a
50 kAIC	50 kAIC	n/a	n/a

Using the DC output ratings and AC input voltage of your particular charger, simply follow the columns to find the proper maximum AC input current, AC input breaker amperage rating, AC input breaker AIC rating, DC output breaker ampere rating and DC output breaker AIC rating.

For example: If you have a 130V, 25A charger with 240Vac input you will have the following values:

Maximum AC Input Current = 28A	AC Input Breaker Amperage Rating = 40A	AC Input Breaker AIC Rating = A*	DC Output Breaker Ampere Rating = 40A	DC Output Breaker AIC Rating = G*

*For AIC Ratings use the reference key to find Standard, Medium, High and Ultimate values. For example, Item A - Standard: 14kAIC / Medium: 25kAIC / High: 65kAIC / Ultimate: 100kAIC

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Table values subject to change upon engineering evaluation

http://www.atseries.net/PDFs/JF5072-01.pdf

ATevo Three Phase Input Current and Circuit Breaker Table

HINDLEPOWER

DC Output Ratings		Maximum AC Input Current								AC Circuit Breaker Ampere Rating								AC Circuit Breaker AIC Rating								DC Circuit Breaker Rating	DC Breaker AIC Rating
Voltage	Amperes	208	240	480	550	600	220	380	416	208	240	480	550	600	220	380	416	208	240	480	550	600	220	380	416		
24Vdc	50	9	8	6	6	5	8	6	6	15	15	15	15	15	15	15	15	A	A	B	C	C	A	B	B	80	J
	75	12	11	7	7	7	11	8	8	15	15	15	15	15	15	15	15	A	A	B	C	C	A	B	B	125	K
	100	16	14	9	8	8	15	10	10	20	20	15	15	15	20	15	15	A	A	B	C	C	A	B	B	150	L
	125	19	17	10	9	9	18	12	11	25	25	15	15	15	25	15	15	A	A	B	C	C	A	B	B	175	L
	150	23	20	12	11	10	22	14	13	30	30	15	15	15	30	20	20	A	A	B	C	C	A	B	B	225	L
	200	30	26	15	13	13	28	18	15	40	40	20	20	20	40	25	25	A	A	B	C	C	A	B	B	300	L
	250	37	32	18	16	15	35	22	20	50	50	25	20	20	50	30	30	A	A	B	C	C	A	B	B	350	L
	300	40	35	19	17	16	38	23	22	50	50	25	25	25	50	30	30	A	A	B	C	C	A	B	B	450	L
	400	64	56	29	26	25	61	37	35	80	80	40	35	35	80	50	50	A	A	E	C	C	A	B	B	600	L
	500	80	69	36	32	30	76	45	42	100	100	50	40	40	100	60	60	A	A	E	C	C	A	B	B	700	L
	600	96	83	43	38	35	84	53	49	125	125	60	50	50	125	70	70	D	D	E	C	C	D	E	E	900	L
	800	140	121	57	50	47	120	71	65	175	175	80	70	70	175	90	90	D	D	E	C	C	D	E	E	1200	L
	1000	152	133	68	64	60	148	84	77	200	200	100	80	80	200	110	110	D	D	E	C	C	D	E	E	1200	L
48Vdc	50	15	14	9	8	8	15	10	10	20	20	15	15	15	20	15	15	A	A	B	C	C	A	B	B	80	J
	75	22	19	11	10	10	21	14	13	30	30	15	15	15	30	20	20	A	A	B	C	C	A	B	B	125	K
	100	28	24	14	13	12	27	17	16	40	40	20	20	20	40	25	25	A	A	B	C	C	A	B	B	150	L
	125	34	30	16	15	15	33	21	19	50	50	20	20	20	50	30	30	A	A	B	C	C	A	B	B	175	L
	150	40	35	19	18	17	39	24	22	50	50	25	25	25	50	30	30	A	A	B	C	C	A	B	B	225	L
	200	53	47	25	22	21	52	31	29	70	70	35	30	30	70	40	40	A	A	B	C	C	A	B	B	300	L
	250	66	58	31	27	25	63	35	32	90	90	40	35	35	90	50	50	A	A	B	C	C	A	B	B	350	L
	300	79	69	36	32	30	76	45	42	100	100	50	40	40	100	60	60	A	A	B	C	C	A	B	B	450	L
	400	114	101	51	45	42	109	64	59	150	150	70	60	60	150	80	80	D	D	E	C	C	D	E	E	600	L
	500	144	126	65	57	52	137	81	74	200	200	90	80	80	200	100	100	D	D	E	C	C	D	E	E	700	L
	600	172	149	76	66	62	161	96	87	250	250	100	90	90	250	125	125	D	D	E	C	C	D	E	E	900	L
	800	227	197	101	88	82	216	126	115	300	300	150	125	125	300	175	175	F	F	E	C	C	F	D	D	1200	L
	1000	261	225	113	106	99	248	143	132	350	350	150	150	150	350	200	200	F	F	E	C	C	F	E	E	1200	L
130Vdc	25	19	17	10	9	9	19	12	12	25	25	15	15	15	25	15	15	A	A	B	C	C	A	B	B	40	J
	30	22	19	11	11	10	22	14	13	30	30	15	15	15	30	20	20	A	A	B	C	C	A	B	B	50	J
	40	28	25	14	13	12	28	17	16	35	35	20	20	20	40	25	25	A	A	B	C	C	A	B	B	60	J
	50	35	31	17	15	14	34	21	20	50	50	25	20	20	50	30	30	A	A	B	C	C	A	B	B	80	J
	75	50	44	23	21	20	48	29	27	70	70	30	30	30	70	40	40	A	A	B	C	C	A	B	B	125	K
	100	65	57	30	27	25	63	38	35	90	90	40	35	35	90	50	50	A	A	B	C	C	A	B	B	150	L
	125	81	71	37	30	31	78	47	43	110	110	50	40	40	110	60	60	D	D	B	C	C	D	B	B	175	L
	150	97	85	44	39	39	93	56	51	125	125	60	50	50	125	70	70	D	D	B	C	C	D	E	E	225	L
	200	134	114	58	51	46	123	73	67	175	175	80	70	70	175	100	100	D	D	E	C	C	D	E	E	300	L
	250	154	135	69	61	56	147	87	80	200	200	100	80	80	200	125	125	D	D	E	C	C	D	E	E	350	L
	300	189	164	81	74	68	185	106	98	250	250	125	100	100	250	150	150	D	D	E	C	C	D	C	C	450	L
	400		222	112	101	91	239	143	131		300	150	150	150	300	200	200		F	E	C	C	F	E	E	600	L
	500			138	120	112	269	172	160			175	150	150	350	250	250			E	C	C	F	E	E	700	L
	600			167	145	134		209	191			250	200	200		300	300			E	C	C		F	F	900	L
	800			219				280	255			300				350	350			G				H	H	1200	L
260Vdc	16	29	26	14	13	12	29	18	17	40	40	20	20	20	40	25	25	A	A	B	C	C	A	B	B	25	M
	25	35	31	20	18	17	41	25	23	50	50	25	25	25	60	35	35	A	A	B	C	C	A	B	B	40	M
	50	66	58	30	27	25	64	44	41	90	90	40	35	35	90	60	60	A	A	B	C	C	A	B	B	70	L
	75	98	85	43	38	35	92	55	50	125	125	60	50	50	125	70	70	D	D	B	C	C	D	E	E	125	L
	100	128	111	58	51	47	125	73	67	175	175	80	70	70	175	100	100	D	D	E	C	C	D	E	E	150	L
	150	195	169	85	75	69	188	107	98	250	250	125	100	100	250	150	150	D	D	E	C	C	D	E	E	225	L
	200	240	220	111	99	90	221	138	128	300	300	150	125	125	300	175	175	F	F	E	C	C	F	E	E	300	L
	300			167	145	134		211	193			250	200	200		300	300			E	C	C		H	H	450	L
	400			222	193	178						300	250	250						H	C	C				600	L

AC Breaker AIC Reference Key							
	A	B	C	D	E	F	G	H
Standard	5 kAIC	10 kAIC	n/a	n/a	n/a	n/a	n/a	n/a
Medium	25 kAIC	18 kAIC	14 kAIC	25 kAIC	18 kAIC	42 kAIC	30 kAIC	30 kAIC
High	65 kAIC	35 kAIC	18 kAIC	65 kAIC	35 kAIC	65 kAIC	35 kAIC	35 kAIC
Ultimate	100 kAIC	65 kAIC	25 kAIC	100 kAIC	65 kAIC	n/a	65 kAIC	n/a

DC Breaker AIC Reference Key			
J	K	L	M
5 kAIC	n/a	n/a	5 kAIC
10 kAIC	10 kAIC	n/a	n/a
20 kAIC	20 kAIC	20 kAIC	n/a
50 kAIC	50 kAIC	50 kAIC	n/a