

# ACCU-CHARGER

FERRORESONANT BATTERY CHARGER

SINGLE PHASE

THREE PHASE

The Accu-Charger sets the industry standard for accuracy, efficiency and reliability. The power conversion circuitry maximizes battery life by using a constantly tapering output, which is automatically regulated by the "On Charge" battery voltage. The charge current of the Accu-Charger is determined by the state of discharge of the battery. The battery is precisely charged, based on its depth of discharge.

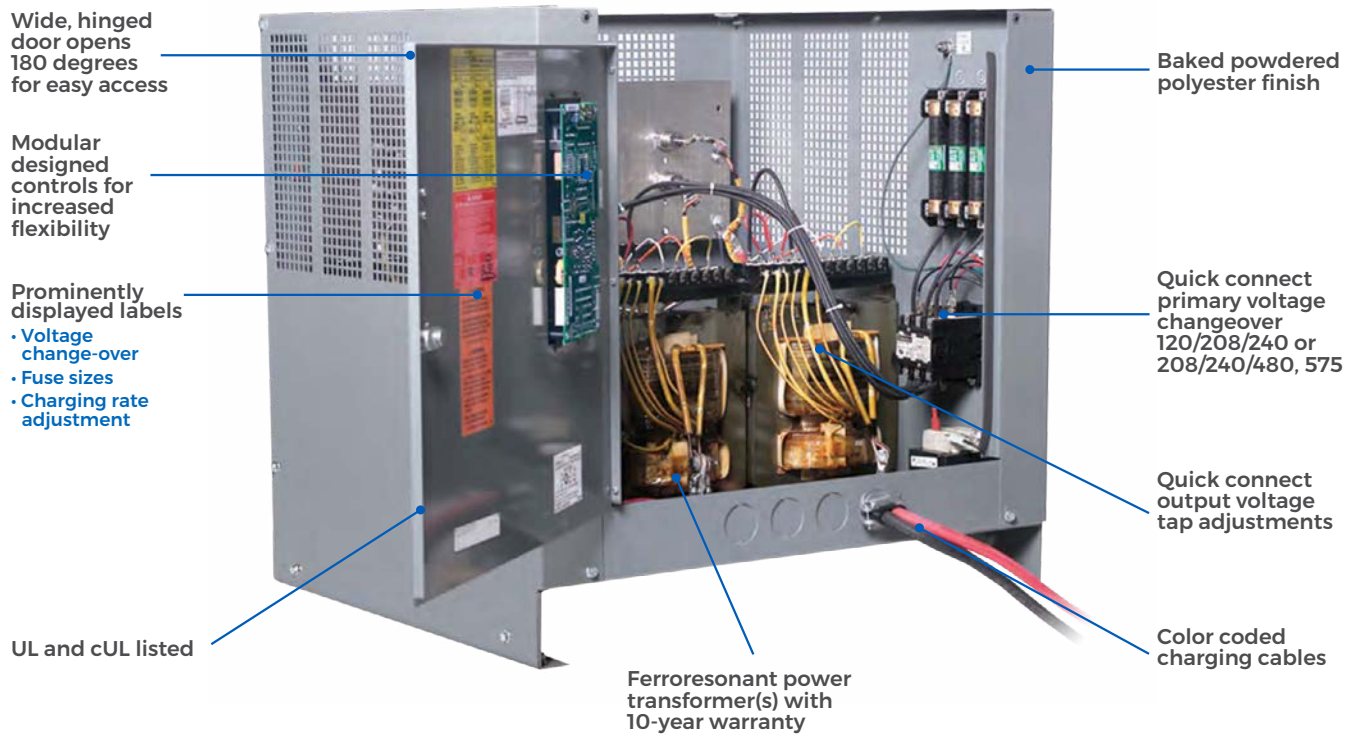
- 100% rated to recharge fully discharged batteries in 8 hours or less
- A choice of 2 interchangeable controls for added flexibility
- Quality-built for little to no maintenance and years of dependable service
- 10-year full warranty
- Fail-safe design protects batteries
- UL and cUL listed



**AMETEK**<sup>®</sup>

**PRESTOLITE POWER**

**CHARGING THE MOTIVE POWER  
INDUSTRY FOR OVER 100 YEARS**



## Maximum Performance

- Available in a variety of single and three phase models, providing multiple AC input voltages as standard.
- Rated to recharge a 100% discharged battery in its ampere-hour rating within 8 hours. After the battery is connected and the control is initiated, it will automatically start the charging operation. It will continue to charge the battery until the battery is fully charged then it will automatically terminate the operation.
- Designed to allow controls to be interchanged in minutes for greater control, flexibility and automation of any battery charging operation. Depending on your charging requirements, it can be controlled by either the AC1000 or AC2000 controller.
- In rare instances where changes to the DC output might be required, necessary adjustments are made simple with conveniently located quick-connect jumpers. AC input voltage change-overs take just minutes because of conveniently located taps and quick-connect jumpers.
- Internally protected against overload, short circuit, incorrect battery connection and voltage transients. Shorting of the DC output will not damage the charger or cause fuses to blow. In the event of a component failure, the charging rate will automatically go to "minimum," protecting the battery from damage.

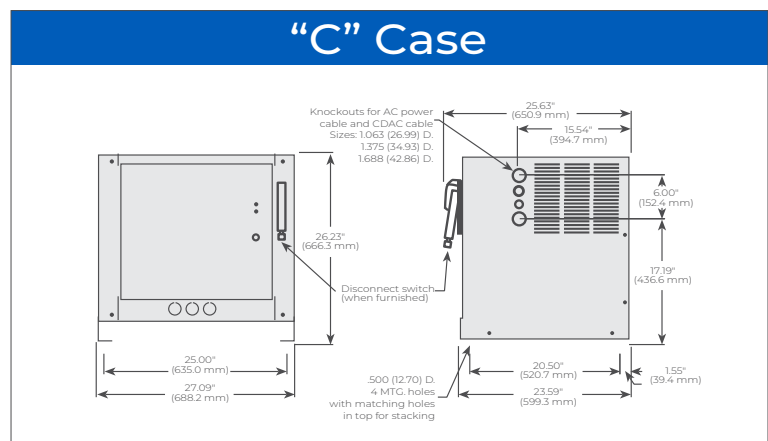
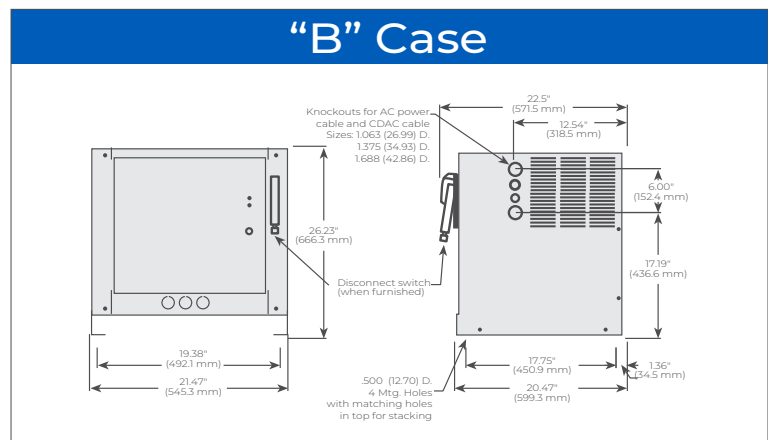
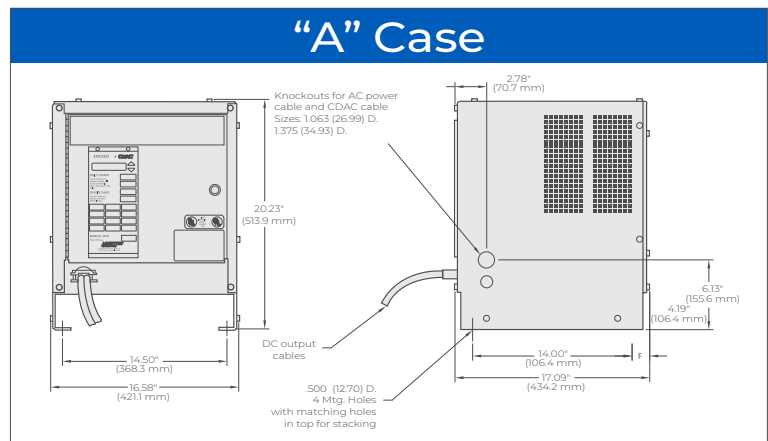
## Benefits

- UL and cUL listed and meets BCI requirements.
- Minimize repair costs with our 10-year original purchaser full warranty on labor, travel, mileage and part replacements. Fuses are not warranted unless found to be defective prior to use.
- Designed without fans to help eliminate dirt and debris getting in the charger and decreases audible noise for quieter operation.
- The copper-wound, ferroresonant transformer design is extremely efficient, converting AC input power to useable DC output power.
- The cabinet is constructed with heavy-gauge sheet metal and finished with a durable, long-lasting powdered polyester baked finish. All case styles can be wall, bench or floor mounted and all cases are stackable to save floor space. The cabinet is designed to provide direct access to the AC power connection points and

ACCU-CHARGER MODELS											
Application		Output	Model Number			AC Input, Amperes			Approximate Weight		
Number battery case	Recommended battery ampere-hour range for 8 hour charge	DC Output amperes 2.13 V/cell	A Case	B Case	C Case	1-phase 120/208/240 volts	1-phase 208/240/480, 575 volts (see notes)	3-phase 208/240/480, 575 volts (see notes)	lb	kg	
6	0 - 180	36	180A1-6			5.5/3.1/2.7	3.1/2.7/1.4, 1.0		95	43	
6	181 - 250	50	250A1-6			8.1/4.7/4.1	4.7/4.1/2.0, 1.5		100	45	
6	251 - 380	76	380A1-6	380B1-6		13.2/7.6/6.6	7.6/6.6/3.3, 2.8		110/165	50/75	
6	381 - 450	90	450A1-6				8.7/7.6/3.8, 3.1		115	52	
6	451 - 510	102			510B1-6		10.6/9.2/4.6, 3.8		175	79	
6	511 - 600	120			600B1-6	600C3-6	11.5/10.0/5.0, 4.2	6.1/5.3/2.6, 2.2	185/225	84/102	
6	601 - 750	150			750B1-6	750C3-6	14.5/12.6/6.3, 5.3	7.2/6.3/3.1, 2.6	190/290	86/132	
6	751 - 880	176			880B1-6	880C3-6	17.7/15.4/7.7, 6.4	8.5/7.4/3.7, 3.1	205/285	93/129	
6	881 - 1,050	210				1050C3-6		10.7/9.2/4.6, 3.8	290	132	
9	381 - 450	90	450A1-9			450C3-9		11.8/10.2/5.1, 4.3	6.7/6.0/3.0, 2.5	120/220	54/100
12	0 - 250	50	250A1-12			16.7/9.6/8.4	9.6/8.4/4.2, 3.5	6.9/6.0/3.0, 2.5	110	50	
12	251 - 380	76	380A1-12	380B1-12	380C3-12		14.5/12.6/6.3, 5.2	14.5/12.6/6.3, 5.2	115/185/275	52/84/125	
12	381 - 450	90		450B1-12	450C3-12		16.5/14.4/7.2, 6.1	8.2/7.1/3.6, 3.0	190/280	86/127	
12	451 - 510	102		510B1-12	510C3-12		18.8/16.4/8.2, 6.7	9.4/8.2/4.1, 3.4	195/283	88/128	
12	511 - 600	120		600B1-12	600C3-12		22.7/19.8/9.9, 8.2	11.2/9.7/4.9, 4.1	205/285	93/129	
12	601 - 750	150		750B1-12	750C3-12		29.1/25.3/12.7, 10.5	14.7/12.9/6.4, 5.3	230/295	104/134	
12	751 - 880	176		880B1-12	880C3-12		34.3/29.9/14.9, 12.4	17.7/15.5/7.7, 6.4	235/310	107/141	
12	881 - 1,050	210			1050C3-12			21.3/18.6/9.3, 7.7	350	150	
12	1,051 - 1,200	240			1200C3-12			21.7/19.0/9.5, 7.9	370	168	
12	1,201 - 1,400	280			1400C3-12			25.8/22.5/11.2, 9.3	410	186	
16	511 - 600	120			600C3-16				16.1/14.0/7.0, 5.8	305	139
16	751 - 880	176			880C3-16				23.3/20.3/10.2, 8.5	320	145
18	0 - 250	50	250A1-18	250B1-18			12.8/11.1/5.6, 4.6		125	57	
18	251 - 380	76		380B1-18	380C3-18		20.0/17.4/8.7, 7.2	10.5/9.1/4.6, 3.8	190/290	86/132	
18	381 - 450	90		450B1-18	450C3-18		24.5/21.4/10.7, 8.9	13.3/11.6/5.8, 4.8	205/295	93/134	
18	451 - 510	102		510B1-18	510C3-18		27.5/24.0/12.0, 10.0	15.7/13.7/6.9, 5.7	215/300	98/136	
18	511 - 600	120		600B1-18	600C3-18		31.1/27.1/13.5, 11.3	17.3/15.1/7.6, 6.3	225/310	102/141	
18	601 - 750	150		750B1-18	750C3-18		42.5/36.8/18.4, 15.4	22.9/19.9/10.0, 8.3	290/320	132/145	
18	751 - 880	176		880B1-18	880C3-18		47.5/41.2/20.6, 17.2	24.2/21.1/10.5, 8.8	330/370	150/168	
18	881 - 965	193		965B1-18	965C3-18		NA/48.0/24.0, 20.0	25.8/22.5/11.2, 9.3	345/380	156/172	
18	881 - 1,020	204			1020C1-18		59.8/51.8/25.9/21.6		335	152	
18	966 - 1,050	210			1050C3-18			29.0/25.2/12.6, 10.5	385	175	
18	1,051 - 1,200	240			1200C3-18			33.6/29.3/14.7, 12.2	425	193	
18	1,201 - 1,400	280			1400C3-18			37.2/32.4/16.2, 13.5	450	204	
18	1,401 - 1,500	300			1500C3-18			45.0/39.0/19.5, 16.3	500	227	
20	1,201 - 1,400	280			1400C3-20			43.5/37.7/18.8, 15.7	495	225	
24	181 - 250	50		250B1-24	250C3-24		17.4/15.2/7.6, 6.3	8.9/7.7/3.9, 3.2	195/285	88/129	
24	251 - 380	76		380B1-24	380C3-24		25.1/21.9/10.9, 9.1	13.7/11.9/6.0, 5.0	219/285	99/129	
24	381 - 450	90		450B1-24	450C3-24		31.5/27.5/13.7, 11.4	17.0/14.8/7.4, 6.2	225/290	102/132	
24	451 - 510	102		510B1-24	510C3-24		42.2/36.6/18.3, 15.3		260	118	
24	511 - 600	120		600B1-24	600C3-24		45.2/39.2/19.6, 16.4	22.5/19.6/9.8, 8.2	295/320	134/145	
24	601 - 750	150			750C3-24			28.1/24.5/12.2, 10.2	380	172	
24	751 - 880	176			880C3-24			34.7/30.2/15.1, 12.6	375	170	
24	881 - 965	193			965C3-24			36.6/31.9/15.9/13.2	380	172	
24	881 - 1,050	210			1050C3-24			41.1/35.8/17.9, 14.9	450	204	
24	1,051 - 1,200	240			1200C3-24			44.1/38.4/19.2, 16.0	470	213	
24	1,201 - 1,400	280			1400C3-24			NA/46.5/23.3, 19.3	510	231	
24	1,401 - 1,520	304			1520C3-24			NA/NA/25.3, 21.1	555	252	
30	251 - 380	76			380C3-30			17.9/15.6/7.8, 6.5	325	147	
30	601 - 750	150			750C3-30			33.2/28.8/14.4, 12.0	380	172	
32	511 - 600	120			600C3-32			28.6/24.8/12.4, 10.4	325	147	
36	0 - 250	50			250C3-36			13.6/11.8/5.9, 4.9	310	141	
36	251 - 380	76			380C3-36			21.7/18.8/9.4, 7.8	325	147	
36	381 - 450	90			450C3-36			25.7/22.4/11.2, 9.3	365	166	
36	451 - 600	120			600C3-36			32.2/28.1/14.0, 11.7	390	177	
36	601 - 750	150			750C3-36			43.6/38.0/19.0, 15.8	415	188	
36	751 - 880	176			880C3-36			NA/43.0/21.5, 17.9	485	220	
36	881 - 965	193			965C3-36			NA/48.0/24.0, 20.0	490	222	
36	881 - 1,000	200			1000C3-36			NA/48.0/24.0/, 21.0	500	227	
40	251 - 380	76			380C3-40		62.2/54.2/27.1, 22.6	22.6/19.6/9.8, 8.2	325	147	
40	451 - 510	102			510C3-40			30.8/26.8/13.4, 11.2	410	186	
40	451 - 550	110			550C1-40				415	188	
40	511 - 600	120			600C3-40				420	191	
40	601 - 750	150			750C3-40				456/39.8/19.9, 16.5	490	222
40	751 - 880	176			880C3-40				NA/47.0/23.5, 19.6	515	234

- NOTE 1: Single phase chargers can be connected to one phase of a three phase power system.  
NOTE 2: Contact factory for availability on non-standard voltages, non-standard cell sizes, 50 Hertz chargers, or special applications.  
NOTE 3: All chargers are furnished with standard SB type battery charging connector and 8 ft. output cable.  
NOTE 4: Standard voltages for single and three phase models are 208/240/480. Alternate voltage configuration 240/480/575.  
NOTE 5: Not all options are available for models listed, contact us for availability.  
NOTE 6: We are continually looking for ways for improve our products, so some specifications may be subject to change without notice.

CONTROL FEATURES	Model	
	AC1000	AC2000
Automatic start/stop	•	•
Timed delay start	•	•
PT/DV/DT termination	•	•
VT termination	•	•
Universal control for 6,12,18, 24,36 cell	•	•
Back-up timers	•	•
AC fail recovery	•	•
Battery/charger mismatch protection	•	•
Refresh charge	•	•
Automatic equalize	•	•
Full battery reject	•	•
Modular design	•	•
Optional start modes	•	•
Forming cycles	•	•
Extended run time	•	•
Optional equalize modes		•
Data-Mate compatible		•
99 cycle archive		•
Cool down	•	•
Thermal runaway protection		•
80% volts/cell	•	•
AC power/reset charge cycle option	•	



**WORLD HEADQUARTERS**  
 66 Industry Court  
 Suite F  
 Troy, OH 45373  
 Toll Free: +1-800-367-2002  
 Fax: +1-800-654-4024

**WEBSITE**  
[www.prestolitepower.com](http://www.prestolitepower.com)

**EMAIL**  
[prestolite.sales@ametek.com](mailto:prestolite.sales@ametek.com)



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