

Industrial Charger Controllers

For Ferroresonant and Silicon Controlled Rectifier (SCR) Industrial Battery Chargers

- FERRO INTERCHANGEABLE
- MULTI-VOLTAGE SCR
- SINGLE VOLTAGE SCR



AMETEK[®]
PRESTOLITE POWER

Choosing the right controller

Ferro Interchangeable Controllers

KEY FEATURES

AC500

Flexible and economical, the AC500 controller delivers the very best in value-priced controls. Designed for use with 6,12,18, 24 and 36 cell chargers, it features our patented DV/DT charge termination technique option, ensuring the most accurate and efficient termination of charge. Available with or without the analog ammeter.

- Automatic start/stop
- Five second delay
- LED charge status lights
- DV/DT termination
- Push button stop
- Manual or automatic equalize
- Available with or without analog meter



AC1000

Full-featured, advanced control system that ensures an optimum charge every time as well as maximum protection for your batteries. Offers comprehensive 9 item charge cycle review, user-selectable charge termination and numerous other programmable functions, such as delayed start, cool down and refresh charger options.

Features gained over AC500

- Digital display
- Delayed start capability
- Push to start capability
- Charge cycle review capability
 - AH returned
 - Start and finish voltage and amperage
 - Open circuit voltage
 - Charge termination code
 - Elapsed charging time

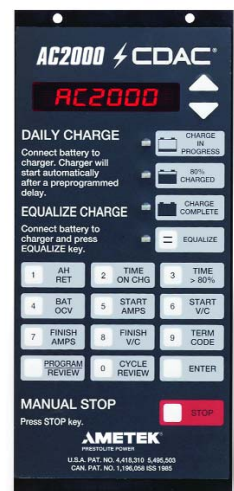


AC2000

The ultimate in charge control information. AC2000 collects and stores charge data for the most recent 99 cycles. Get control flexibility through a variety of operating modes through the sealed membrane keypad. The alphanumeric display reveals cycle status through easy to read messages. User-selectable charge termination modes ensure a full charge while eliminating excessive gassing.

Features gained over AC1000

- Alpha numeric display
- Time of day start and block-out
- Charge cycle review while charging
- Day of week/BID cycle equalize
- CDAC compatible
- DataMate compatible
- BID interface capability
- Password protection
- 99 cycles of archived charging data



Single Voltage SCR Controllers

KEY FEATURES

SCR1000

Here's charger control flexibility at an exceptional value. The SCR1000 can be programmed to charge 6, 9, 12, 18 or 24 cell batteries and reviews each charge cycle with 9 distinct displays. It also offers user-selectable charge termination as well as programmable curve, delayed start, cool down and refresh options.

- Alpha numeric display
- DV/DT termination
- Automatic start/stop
- Five second delay
- LED charge status lights
- DataMate compatible
- High current shutdown protection
- Adjustable multi amp hour operation (BID required)
- Temperature compensation (BID required)
- Selectable output profiles (automatic with BID)



SCR2000

Put complete and accurate charge information right at your fingertips. Easily interchangeable with the SCR1000, the SCR2000 offers 37 programming functions and can store up to 22 items of cycle information for the previous 99 cycles. It also provides refresh charge, cool down and other critical energy-saving options and offers four different start modes.

Features gained over SCR1000

- Time of day start and block-out
- Push to start capability
- Charge cycle review while charging
- Day of week equalize
- CDAC compatible
- BID programming capability
- Password protection
- 99 cycles of archived charging data



Multi-voltage SCR Controllers

KEY FEATURES

UC2000

The flexibility of the Ultra Charger and Ultra Extreme Fast Charger is defined by the state-of-the-art micro-controller in the UC2000 charge control. The UC2000 has two main components: control board/regulator board and keypad/display and three major functions: review, archive and programming.

- Alpha numeric display
- DV/DT termination
- Automatic start/stop
- Five second delay
- LED charge status lights
- DataMate compatible
- CDAC compatible
- BID programming capability
- Automatic multi cell size operation
- High current shutdown protection



CONTROLLER FEATURE COMPARISON

CONTROL FEATURES	FERRORESONANT			POWER STAR		ULTRA
	AC500	AC1000	AC2000	SCR1000	SCR2000	UC2000
Automatic start/stop	X	X	X	X	X	X
Modular design for interchangeability	X	X	X	X	X	
Five second safety delay after connection.	X	X	X	X	X	X
Universal control for 6, 12, 18, 24 and 36 cell	X	X	X	X	X	X
Universal control for all AH capacity batteries	X	X	X	X	X	X
Digital display		X	X	X	X	X
Alpha numeric display		X	X	X	X	X
LED lamp test	X	X	X	X	X	X
Maximum over and undercharge protection (PT/DV/DT) termination	X	X	X	X	X	
DV/DT termination						X
Voltage/time charge termination	X	X	X	X	X	X
Delayed start capability		X	X	X	X	X
Time of day start capability			X		X	X
Time of day block-out capability			X		X	X
Push to start capability		X	X		X	X
CHARGE CYCLE REVIEW						
One touch review of charge cycle information		X	X	X	X	X
Ampere hours returned to the battery recorded and displayed		X	X	X	X	X
Battery voltage at start and finish recorded and displayed		X	X	X	X	X
Battery amperage at start and finish recorded and displayed		X	X	X	X	X
Open circuit voltage recorded and displayed		X	X	X	X	X
Charge termination code recorded and displayed		X	X	X	X	X
Elapsed charging time recorded and displayed		X	X	X	X	X
Review data during charge cycle			X		X	X
CHARGE STATUS INDICATORS						
Low current shutdown signaled by display or LED indicators	X	X	X	X	X	X
0-80% backup timer signaled by display or LED indicators	X	X	X	X	X	X
80% end backup timer signaled by display or LED indicators	X	X	X	X	X	X
Manual stop signaled by display or LED indicators	X	X	X	X	X	X
AC power applied indication		X	X	X	X	X
Selectable display or readout during the charge cycle			X			
80% charged LED	X	X	X	X	X	X
Charge complete LED	X	X	X	X	X	X
Equalize in progress LED	X	X	X	X	X	X
CHARGING FUNCTIONS						
Battery forming, programmable (0-30 cycles)		X	X	X	X	X
Fault lockout capability		X	X		X	X
New battery recognition during an AC power failure	X	X	X	X	X	X
AC fail recovery protection	X	X	X	X	X	X
Adjustable 80% point	X	X	X	X	X	X
Battery/charger voltage mismatch discrimination, (hi/lo batt)	X	X	X	X	X	X
Full battery reject		X	X	X	X	
Low battery voltage override	X	X	X	X	X	X
Battery/charger disconnect shutdown	X	X	X	X	X	X
Back-up timer protection	X	X	X	X	X	X
Refresh charge fixed (72 hours)	X					
Refresh charge programmable (8-99 hours)		X	X	X	X	X
Extended run time, programmable (0-60 minutes)		X	X	X	X	
Cool down time, programmable (0-8 hours)		X	X	X	X	X
2 times input voltage protection	X	X	X	X	X	X
Push-button stop	X	X	X	X	X	X
Manual equalize push button	X	X	X	X	X	X
Automatic equalize by cycle fixed to every fifth cycle	X					
Automatic equalize by cycle adjustable		X	X	X	X	X
Automatic day of week equalize			X		X	X
CDAC system compatibility (with exp. PCB)			X		X	X
DataMate system compatibility			X	X	X	X
Battery I.D. programming capability			X		X	X
High current shutdown protection			X	X	X	X
Password protection of features settings			X		X	X
30 cycles of archived charge cycle data retained				X		
99 cycles of archived charge cycle data retained			X		X	X
Fully automatic multi cell size operation (can set for manual operation)						X
Manually adjustable multi amp-hour operation (automatic w/BID)				X	X	X
Adjustable temperature compensation (automatic w/BID)				X	X	X
Selectable output profiles (automatic w/BID)				X	X	X
Auto equalize by BID cycle			X			X
Staggered AC fail restore			X			X

RED X INDICATES FEATURE GAINED BY GOING TO THE NEXT LEVEL CONTROLLER

AMETEK Prestolite Power & Switch reserves the right to change product specifications without notice.



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