











AC500

Automatic Start/Stop Charger Control



Value-priced control provides maximum protection

-  *Modular design for maximum flexibility*
-  *Universal control for 6, 12, 18, 24 and 36 cell batteries*
-  *User selectable charge termination*
-  *Battery/charger mismatch protection*
-  *Automatic Equalize*
-  *Back-up timers for additional battery protection*
-  *User selectable 80% voltage points*
-  *AC fail recovery*
-  *Quality-built for years of trouble-free service*
-  *Specify with or without analog ammeter*

AMETEK®
PRESTOLITE POWER



Excellent control at an economical price

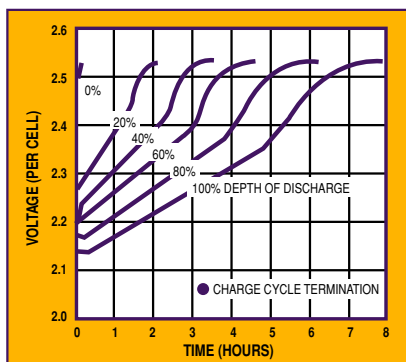
Designed to take charge

The AC500 control is fully automatic, featuring four bright LEDs for easy identification of the charging status, and two manual push-buttons, "Equalize" and "Stop," to allow further management of the charging operation.

Automatic start/stop

When the battery is connected to the charger, the AC500 will provide a five-second delay to check for proper connection before it automatically begins the charging operation. When charging is complete, the AC500 will automatically terminate the operation and the "Charge Complete" LED will illuminate.

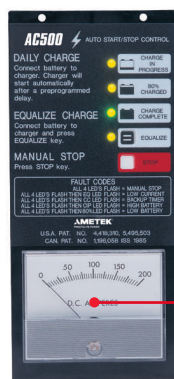
PT/DV/DT charge termination



The AC500 utilizes our patented charge termination technique, DV/DT, or rate of change of battery voltage with respect to time, with proportional time (PT) to determine when to terminate a charge cycle. The length of time it takes the battery to reach the 80% charged point determines the sampling rate. This termination method ensures a precise charge every time, never under or over charging, even on lightly discharged batteries. This technique used in conjunction with the tapered curve of the ferroresonant chargers, ensures that the rate of change for both battery voltage and current always provides an efficient and accurate termination of charge.

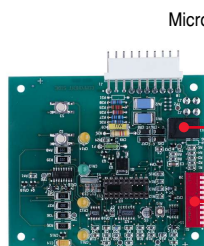
Should the user prefer a voltage/time charge termination, the AC500 can be set for this popular termination method by closing the proper dip switch on the PC board.

Because we continually improve our products, specifications are subject to change without notice.
©2000, AMETEK, Inc. Prestolite Power, Troy, Ohio
Data Sheet: 1323 11/00 5M Printed in U.S.A.
Replaces: 7/99



AC500 (with meter)

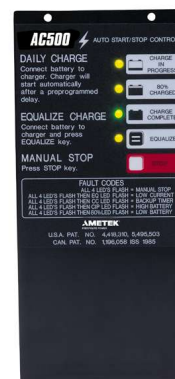
Charge status LEDs



Micro-computer

Full scale ammeter to match your charger output (0-100A, 0-200A, or 0-400A)

Battery cell selector switches



AC500 (without meter)

Charge status LEDs

Universal control

The AC500 can be used to control any of the following 6, 12, 18, 24, or 36 cell chargers: Accu-Charger, 'R' Series, Multiple-Circuit Accu-Charger or Battery-Mate. Set cell size easily through cell selector switches located on the PC board.

User selectable 80% voltage point

The AC500 control may be set for an average 80% voltage point of 2.37 volts/cell or 2.45 volts/cell. In cold storage applications, ensure a complete charge by using the dip switch on the PC board to select the 2.45 volts/cell 80% point.

Automatic Equalize

The AC500 automatically provides an equalize charge of three hours beyond a normal charge complete on every 5th cycle. When an equalize charge is desired out of sequence, one can be selected by pressing the "Equalize" key on the front panel. Pressing the "Equalize" key at any time during an equalize charge cycle will deselect the equalize function for that cycle.

Battery/charger mismatch protection

The AC500 has the ability to discriminate and reject batteries that do not match the charger and control—thus providing additional protection for the battery. If the battery voltage is over or under sized, the charger will not start.

72-hour refresh charge

If the battery and charger are left connected for 72 hours after the initial charge has been completed, the AC500 provides a refresh charge to ensure a fully charged battery when needed.

Unaffected by AC power failures

If AC power is interrupted during a charge cycle, the AC500 is designed so that when AC power is restored the charge cycle is resumed at the point where it was stopped.

Modular design

The AC500 is easy to install and remove. Its modular design allows it to be interchanged with other controls in just minutes.

Back-up timer protection

The AC500 is equipped with two back-up timers for additional battery protection. These back-up timers terminate the charge if (1) the battery is not 80% charged in 10 hours or (2) the charge is not completed within 5 hours after reaching 80% charged. These timers protect the battery from excessive overcharging – and possible permanent damage.

Quality-built for years of trouble-free service

The AC500, as with all our products, is engineered to meet the everyday challenges associated with charging batteries. Unmatched in construction, reliability and value, the AC500 is subject to intensive quality control and test procedures to ensure many years of trouble-free service.

Analog Ammeter

When ordering, please specify with or without the analog ammeter.



AMETEK®
PRESTOLITE POWER