

3400

CHARGE CONTROL DV/DT & DI/DT MICROPROCESSOR

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Microprocessor based DV/DT & DI/DT charge control monitors the rate of change of voltage and current during a charge cycle to validate the state of charge and provides for a fault free, efficient and precise termination of charge. Batteries are completely charged every time regardless of their state of discharge or age.

The 3400 control optimizes battery life by never allowing the battery to be over-charged or undercharged and will recognize and display abnormal conditions at the beginning, during and after the charge cycle.

The 3400 control lowers maintenance costs by reducing water consumption, watering time and battery cleaning. Significant saving in energy consumption are realized since the 3400 control terminates the charge cycle based on battery requirements, not time.

FEATURES

■ DV/DT & DI/DT - monitors the charge cycle from start to finish and terminates automatically when battery is completely charged.

■ Automatic start - after a 5 second delay for operator safety.

■ Selectable delay start - provides for battery cool-down, eliminates opportunity charging and allows for cost effective off-peak charging.

■ AC Power Fall Recovery - charge cycle resumes at the point in the cycle where interrupted.

■ Equalize - push button activates a 3 hour extension of the charge cycle when selected, as required by most battery manufacturers.

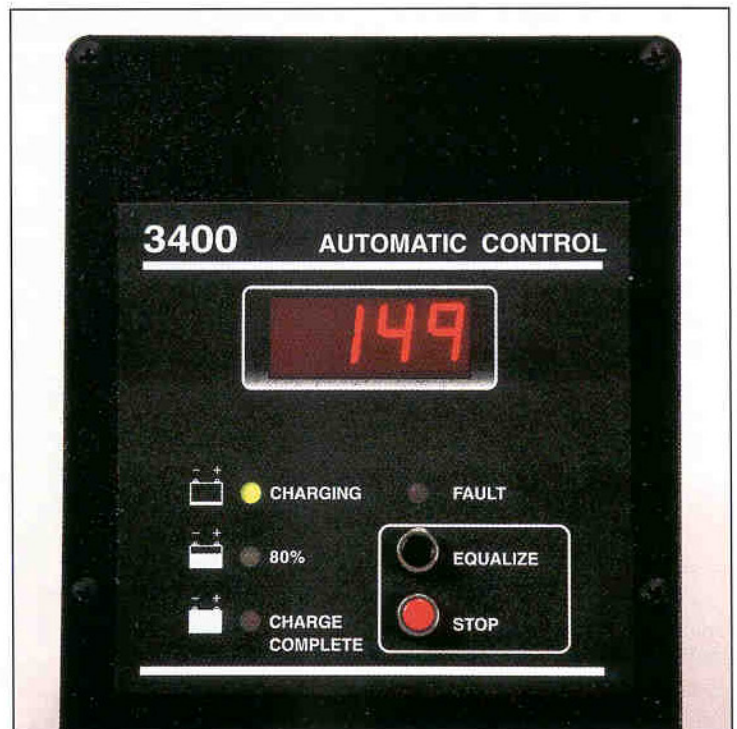
■ Digital Display - shows charging current, amp-hours returned, cool-down time, delay start time, equalize selected, equalize in process and fault diagnostics.

■ 4 LEDES - indicate charging, 80% charged, charge complete, equalizing, refresh mode and fault.

■ Low battery Override - push and hold the stop button allows charger to start on a severely discharged battery.

■ Electronic Back-up Timers - 80% and 100% internal timers prevents over-charging and damage to battery.

■ Battery/Charger Mismatch Protection - will not allow charger to start if connected to incorrect battery.



■ Fault Diagnostics - automatic shut down and fault displayed for high or low volts per cell, low current, back-up timers activated and output cable disconnected while charging.

■ Automatic Refresh - keeps battery topped up after a charge cycle. May be used to equalize a battery in certain applications.

■ Cool Down Timer - displays amount of time the battery has been cooling.

■ Adjustable 80% Voltage Point - Factory adjustable for cold storage or use with high gravity batteries.

■ Optional Temperature Monitor - Stops the charge cycle if the battery temperature exceeds 135 degrees F.