

APPLIED ENERGY
SOLUTIONS

QUARTERHORSE™

Opportunity Charging *The Power of Excellence*

*Converts existing charging applications to Opportunity Charging
with superior operational efficiency and operator safety.*

*Materials
Handling*



Automotive



Cold Storage





QuarterHorse Opportunity Charging

The ideal solution for users recognizing the need to convert to Opportunity Charging with the safest and most effective method.

Features & Benefits

- Fully integrated microprocessor control that automatically terminates the charge cycle when the battery voltage reaches the gassing point. Final charge period is determined by real time clock programming
- Returns up to 25% recharge in one hour and 80% recharge in just over three hours and 100% recharge in just over six hours
- Charges standard batteries, no need for special cables, intercell connections, or ventilation of battery tray
- Low electrical noise ideal for use in plant settings where other electronic equipment and controls are in the immediate proximity
- Selectable High output or Standard output settings
- Interface jack for remote control and monitoring options
- Compatible with industry accepted Data Acquisition devices
- Automatic refresh charge every twenty four hours
- Auto start with five second delay
- Selectable delayed start from one to nine hours (standard mode only)
- Battery protection with override timers, wrong battery sensing and negative charge slope termination
- Automatic shutdown for the following conditions
 - 80% charge does not occur in nine hours during standard rate or six hours during high rate
 - Final charge is not reached six hours after 80% (gassing point)
 - Volts per cell are too high or too low
 - Charging current is too low
 - Battery cable is disconnected while charging
 - Maximum battery temperature reached (requires optional battery temperature sensor)
- **CAUTION:** DISCONNECTING THE BATTERY FROM THE CHARGER DURING THE CHARGE CYCLE WITHOUT MANUALLY STOPPING THE CHARGER CAN CAUSE DAMAGE TO BOTH OPERATORS AND EQUIPMENT AND VOID THE WARRANTY
- Advanced Ferroresonant technology for Total Charge Control over the complete charging cycle
- Three selectable Charge profiles
- High rate timer selectable for 90 minutes or until 80% gassing point is reached
- Four position Digital display for showing;
 - Charge current
 - Equalize in process
 - Fault diagnostics

- Four LED indicators showing charge status including
 - Charging
 - 80% Charged
 - Charge Complete
 - Fault Shutdown
- LED test button
- Charge data monitor button provides AH returned, Total charge time, Average volts per cell
- Cool down timer initiates at the end of charge
- Red push button for manual shutdown
- Manual jump start for over-discharged batteries
- Manual and/or Automatic equalization can be set for weekends via real time clock programming
- Ten foot long output cables for added flexibility
- Numerous Output connectors available as standard

Product Safety

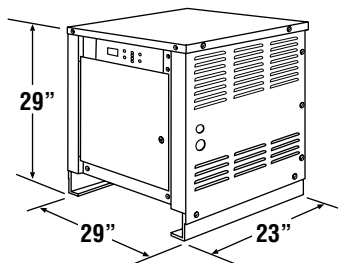
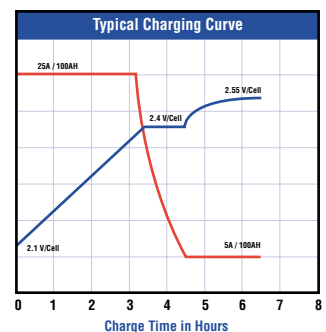
- UL Listed
- UL Listed to Canadian Safety Standards

Optional Features

- Battery electrolyte temperature sensor available
- Wall Mount brackets available
- Remote Control Box available
- Fungus protection available

Warranty

- See Warranty Certificate for information



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