

APPLIED ENERGY SOLUTIONS  
**WORKHORSE**<sup>™</sup>

Series

*The Power of Excellence*

*Your choice of horse power for the long haul.  
This family of dependable, heavy duty industrial chargers,  
features ferroresonant technology for single, dual and  
multi-shift applications.*



*Materials  
Handling*



*Textiles*





# WorkHorse Series 2



The most dependable dual-shift charger on the market.  
Fully recharges a normally depleted lead acid battery in eight hours or less.

## Features & Benefits

- Fully integrated microprocessor control for automatic dv/dt - di/dt termination
- Interface jack for remote control and monitoring options
- Automatic refresh charge every twelve hours
- Charge time of eight hours or less on a normally discharged battery
- Auto start with five second delay
- Selectable delayed start from one to nine hours
- 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 or;
  - 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
- **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
- Ferroresonant tapered charge for optimum battery and charger life
- Selectable 80% voltage of 2.37 or 2.45 volts per cell
- 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
- Red push button for manual shutdown
- Manual jump start for over-discharged batteries
- Manual and or Automatic equalization
- Ten foot long output cables for added flexibility
- Numerous Output connectors available as standard

## Product Safety

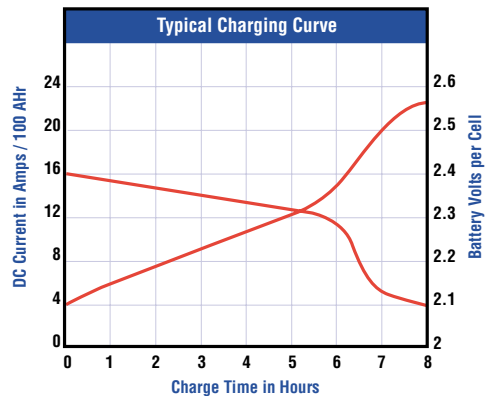
- UL Listed
- UL Listed to Canadian Safety Standards

## Optional Features

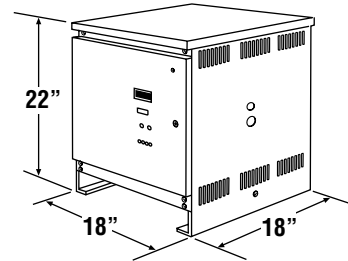
- Wall Mount brackets available
- Remote Control Box available
- Fungus protection available

## Warranty

- See Warranty Certificate for information



## Single Phase



## Three Phase

