

FEATURES

- Ferroresonant technology automatically regulates output for a precise and complete charge cycle
- Energy efficient charging saves operation costs
- Extends battery life with automatic stop/start controllers
- Available with 2200 dv/dt or 3500 dv/dt-di/dit automatic charge controls
- Designed and manufactured for years of trouble free service
- 10 year warranty
- Single and three phase models with selectable AC input voltages
- UL and CUL listed



INDUSTRIAL BATTERY CHARGERS

Automatic chargers for single and multi-shift applications

Series 1400

Recharge 80% discharged battery in 12 hours or less

14 amps per 100 amp hour capacity start rate

Series 1600

Recharge 80% discharged battery in 8 hours or less

16 amps per 100 amp hour capacity start rate

Series 1800

Recharge 100% discharged battery in 8 hours

18 amps per 100 amp hour capacity start rate

Series 2000

Recharge 100% discharged battery in 6-8 hours or less

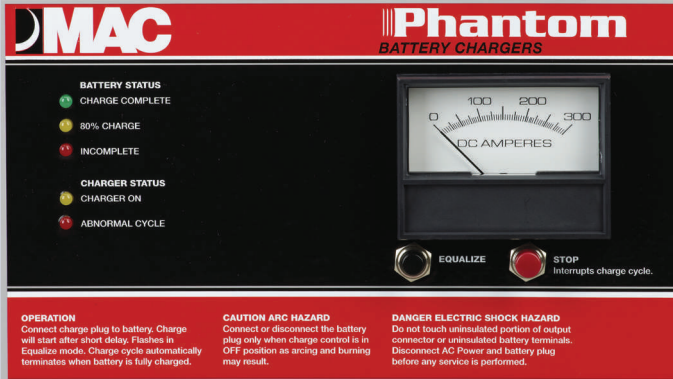
20 amps per 100 amp hour capacity start rate



Phantom

1400 | 1600 | 1800 | 2000 SERIES

2200 Charge Control DV/DT



Features

dv/dt Control monitors battery condition and automatically determines when to shut the charger off.

Auto start/stop
2200 charger starts automatically after connecting charger to the battery. Charge terminates when battery receives proper charge.

Fail-safe Protection
Internal backup time terminates charge cycle in the event of abnormal conditions. Red Abnormal Cycle status lights will illuminate.

AC Interrupt Protection
In the event of AC power interruption the charger automatically restarts upon the resumption of AC power.

Status Lights
Provides important operation information on both charger and battery throughout the charge cycle.

Energy Saving
Significant reductions in the cost required to charge a battery through precise charge termination.

3500 Charge Control DV/DT DI/DT



Features

dv/dt di/dt monitors the charge cycle from start to finish and terminates automatically when battery is completely charged.

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

Digital display shows charging current, amp-hours returned, cool down time, delay start time, equalize select, equalize in progress.

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.

Adjustable 80% voltage point, low battery override, electronic back-up timers, battery/charger mismatch protection.

Mechanical Configuration

CASE TYPE	"A" DIM	"B" DIM	"C" DIM	"D" DIM	"E" DIM	"F" DIM	"G" DIM
F CASE	14.156	22.563	14.234	12.625	12.000	5.125	13.000
G CASE	20.312	25.063	21.484	18.750	19.105	7.750	19.000
H CASE	27.156	25.062	24.236	25.625	21.790	9.625	20.000
J CASE	32.812	32.000	24.750	30.500	21.274	9.750	22.039

