

# LTD-FERRO

## FERRORESONANT BATTERY CHARGERS SINGLE SHIFT

The LTD-Ferro charger is designed for use in light industrial, single-shift applications where 10-16 hours are available for charging. These applications include walkie trucks, light-duty narrow aisle trucks, sweepers and scrubbers, personnel carriers, man lifts and other equipment using lead-acid deep-cycle batteries. It features four bright LED lights for easy identification of charging status, two manual push buttons for Equalize and Stop, back-up timers and AC fail recovery.

- User selectable charge termination
- Automatic Equalization
- AC fail recovery
- 3-year transformer warranty
- UL and cUL listed



**AMETEK®**

**PRESTOLITE POWER**

**CHARGING THE MOTIVE POWER  
INDUSTRY FOR OVER 100 YEARS**

## Maximum Performance

- Designed to charge batteries used in light industrial, single-shift applications in 10 – 16 hours.
- The power conversion circuitry is designed to maximize battery life with its constantly tapering charge, automatically regulated by the “on charge” battery voltage. The output current of the charger is determined by the state of discharge of the battery. The battery is precisely charged based on its depth of discharge.
- When the battery is connected to the charger, LTD-Ferro will provide a five-second delay to check for proper connection before it automatically begins the charging operation. Once charging is complete, it will automatically terminate the operation and the “Charge Complete” LED will illuminate.
- Automatically provides an equalize charge of three hours beyond the normal charge on every fifth cycle. Pressing the “Equalize” key at any time during an equalize charge cycle will deselect the equalize function for that cycle. When the automatic equalize function is selected, the manual push-button is disabled to prevent unnecessary equalize charges.
- If the battery and charger are left connected for 48 hours after the initial completed charge, the charger will provide a refresh charge to ensure a fully charged battery when needed.
- Equipped with two back-up timers for additional battery protection. These timers terminate the charge if the battery is not 80% charged in 13 hours or if the charge is not completed within 5 hours of reaching 80% charged.

## Benefits

- Utilizes a 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. Used in conjunction with the tapered curve of ferroresonant chargers ensures the rate of change for both battery voltage and current always provides an efficient and accurate termination of charge.
- Designed to resume charge cycle at the point it stopped if there is an AC Power interruption.
- UL and cUL listed.
- Minimize repair costs with our 3-year warranty on power transformers and diodes and 1-year on all other components.

LTD-FERRO MODELS										
Specification	Ferro 300-6	Ferro 510-6	Ferro 300-12	Ferro 400-12	Ferro 510-12	Ferro 510-12-240	Ferro 300-18	Ferro 400-18	Ferro 510-18	Ferro 250-24
Number of Battery Cells	6	6	12	12	12	12	18	18	18	24
DC Output Volts	12	12	24	24	24	24	36	36	36	48
DC Output Amps	30	50	30	40	50	50	30	40	50	25
Battery A-H Range	180 - 380	300 - 600	180 - 380	225 - 450	300 - 600	300 - 600	180 - 380	225 - 450	300 - 600	150 - 350
AC Input Volts	120	120	120	120	120	208/240	120	120 <sup>1</sup>	208/240	120
AC Input Amps	5	8	9.5	11.5	15	8.6/7.5	13	18 <sup>1</sup>	13/11	15
Approximate Weight (lb)	51	62	60	80	83	83	83	99	99	82
Approximate Weight (kg)	23	28	27	36	38	38	38	45	45	37

All units measure 16.5 H x 12.5 W x 12 D inches (419.1 x 217.5 x 304.8 millimeters)  
<sup>1</sup>Requires 20 Amp service

### WORLD HEADQUARTERS

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