

La Marche A45E Battery Charger



DESIGN FEATURES

Proven Mag Amp Technology
 Rugged Design, Built to Handle
 the Toughest Applications
 Automatic Current Limiting
 Automatic compensation for All
 AC Line Variations
 Simple, Solid State Design
 Easy to Operate
 Controlled Charging Cycle
 Available with Optional BOTE
 Ground Integrity System

Made In The USA

La Marche A45E Battery Charger — reliable charging capabilities combined with a superior monitoring system.

The La Marche A45E Battery Charger features an exclusive computer control system that automatically senses conditions the instant it is connected to a battery. It quickly determines the level of charge needed by the battery; reliably delivers the charge; and, maintains the charge at its optimum level for long-term battery performance.

The A45E monitoring system helps prevent both undercharging and overcharging. By delivering only the charge your battery needs, from start, through the gassing stage, to the finish charge, regardless of its charge level.

The charging curve of the A45E is easily adjusted to cover many battery designs and types. The exclusive La Marche Mag Amp technology provides automatic line compensation and adjustable DC output range through a specially designed input transformer and magnetic amplifier.

To minimize harmful temperature rise, the A45E is designed to return a maximum charge to the battery in the shortest possible time. Designed and built with La Marche quality inside and out, the A45E will service your batteries for years.

Call La Marche today for more details.

the powerful advantage™



La Marche A45E Battery Charger

Technical Data

Ordering Information

When Ordering Please Specify the Following

- La Marche model number A45E
- AC input voltage, phase and Hz
- Number and type of battery cells
- Ampere hour capacity of battery
- Standard recharging time is eight hours

Instant Decision Making

The A45E instantly analyzes DC current, DC voltage, AC voltage and power line frequency to provide a constant update on both battery and line conditions. The La Marche A45E also offers a wide spectrum of data and control function.

Push-button Data Selection

Utilizing an LED digital display, any of four operating parameters may be called up. Each push of the button advances the display one function from left to right. The operating parameters are updated automatically every 60 seconds. And, in the event of a power loss, all vital information is retained in the A45E's computer memory.

Output Amperes

The A45E displays actual output current within 1 amp.

Output Voltage

The A45E displays actual output voltage within .1 volts.

Ampere Hours Returned

The A45E displays accumulated amp hours returned to the battery from the start of the charge cycle.

Elapsed Time Display

The A45E can easily determine, at any time, the total accumulated charging time by selecting the "Elapsed Time" function. Elapsed time is shown in hours and minutes.

Status Lights

Important information can be retrieved utilizing the A45E's status lights. The status report provide the following functions:

- Charger On
- 80% Charge
- Charger Complete
- Equalize
- Unit Failure

Equalize Control

The A45E equalize charge cycle brings all the cells up to the same charging level when the control panel "Equalize" function is selected. An automatic 12-hour timer, in conjunction with electronic equalize circuitry, provides full charge protection.

Back-up Timer

The A45E is available with a 12-hour back-up timer. In the event of a system failure, the charger will protect your battery by shutting down. The charger "Failure" light will illuminate any time the back-up timer is activated. During an AC power line failure, the back-up timer retains memory.

Standard Features

10' DC leads with charging connector (SB, EC or YC)

Digital LED Display and Status Lights

- Output Amperes
- Output Voltage
- Ampere Hours Returned
- Elapsed Time
- Failure Diagnostic Code

Digital LED Status Lights

- Charger On
- 80% Charged
- Charge Complete
- Equalized Charge
- Unit Failure

Charge Completion On

- Voltage Rate of Change (DV/DT)
- Three Hours After 80% Charge
- Six Hours After 80% Charge in Equalized Mode
- Battery-operated Back-up Timer

Failure Diagnostics

The A45E will not only tell you that a failure has occurred by illuminating the "Failure" light, but it will also analyze the situation and instantly provide a numeric diagnostic code on the LED digital display. During a failure, the A45E automatically ceases charging operation.

Fault Lock-out

If the automatic charging mode is interrupted the A45E will shut down. Once the failure condition has been corrected, the manual "On/Off" switch is used to clear the "Failure" condition LED light, allowing the charger to restart.

Multiple Input — Voltage Capability

Simple transformer tap charges can be used to select the available input voltage.

Specifications

Standard Electrical AC Input Voltages

- 120/208/240, 50/60 Hz, single-phase
- 208/240/480, 50/60 Hz, single-phase or 3-phase
- 480/575, 50/60 Hz, 3-phase

DC Output Combinations

DC Amps — 30 to 400, depending on AH capacity (159-2,600 AH) of the battery and allowable charge time (eight hours typical).

DC volts

12 to 240 nominal, depending on the number and type of cells.

Mechanical

Exact dimensions and approximate weights are listed on individual A45E Price Sheets. Consult your La Marche representative or distributor for this information.

Control System

- Selectable 6-hour Equalize Charge Control
- Programmable Delayed Start
- Hold Time on AC Failure
- Resume Time on AC Line Return
- Fused AC Input and DC Output
- Internal Terminal Board for Easy Connection of AC Input and DC Output
- Back-up Timer (12-hour override)
- Failure Mode Diagnostics
- Fault Lock-out — Manual Reset on Failure Conditions
- Remote/Start/Stop Capability
- Verifies Battery Voltage and Polarity Before Starting
- Low Voltage Control Circuitry on All Models

Finish

Bonderized silicone baked enamel, medium blue.

Mounting

Wall or floor mounting available (depends on enclosure size).

Optional Accessories

- JIC Approved Enclosure — AC fused disconnect switch
- Fan-forced Cooling System
- 3-phase Input — where single-phase is indicated
- Special Paint
- Export Packaging
- Emergency Stop Button
- Two-circuit Sequence Control
- Three-circuit Sequencing Control

Warranty

La Marche equipment is warranted to be free from any defect in workmanship and material that may develop within a period of one year from date of purchase. In addition, La Marche warrants its magnetics and power diodes on a part replacement basis only for nine more years. See the Industrial division Manufacturer's Warranty for details.

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