

E-Z ChargeTM

Single and Three Phase Ferroresonant Industrial Battery Chargers



E-Z Charge is more than a name, it's easy to maintain... easy to operate... easy on energy bills... easy on your battery.

- ⚡ Fail safe design*
- ⚡ Automatic start/stop control with...*
 - DV/DT charge termination*
 - Fully charged battery reject*
- ⚡ Quality-built for years of trouble-free service*
- ⚡ Ten-year transformer and diode warranty*

AMETEK[®]
PRESTOLITE POWER



E-Z Charge

The E-Z Charge is an industrial-rated ferroresonant battery charger with a full-featured automatic start/stop control. It is designed for industrial applications where the batteries are 80% discharged, and there is 10 hours available for recharge. Batteries discharged greater than 80% will require a slightly longer charge time. In these applications, the E-Z Charge typically returns 107% of the ampere-hours removed from the battery, ensuring a full charge.

The ferroresonant power circuit is designed to maximize battery life with its tapering charge regulated by the "On Charge" battery voltage. The output current of the charger is a function of the state of discharge of the battery. The battery is precisely charged, based on its depth of discharge.

⚡ Automatic Start/Stop

When the battery is connected to the charger, the E-Z Charge automatically begins charging after an initial 5-second delay to allow for safe connection. The charge terminates automatically and the green "Charge Complete" LED illuminates for easy identification.

⚡ DV/DT Charge Termination

The E-Z Charge uses a patented DV/DT charge termination technique, or rate of change of battery voltage with respect to time, to determine when to terminate a charge cycle.

This proprietary technique, combined with the tapered curve of the charger, ensures that the rate of change for both battery voltage and current equal zero.

DV/DT has proven to be the most efficient and precise method of charge termination. No predetermined amount of time is built into the charge termination routine allowing the actual battery voltage to determine when to terminate the charge. Batteries receive the precise charge required to bring them back to full capacity and are protected against over or undercharge. This reduces battery maintenance and extends battery life.

For users who prefer a voltage/time charge termination, the E-Z Charge control can be set for this popular termination method through the use of a dip switch located on the PC board.

⚡ Battery Charger Safeguards

The E-Z Charge is internally protected against overload, short circuit, reverse polarity connection, voltage transients and other unsafe failure modes. These safeguards protect the charger and battery, assuring longer life for both.

⚡ Low Operating Cost

The E-Z Charge is inherently efficient due to its ferroresonant circuitry, the most utilized method of charging lead acid batteries. In addition, the standard auto start/stop control provides for a more efficient charge.

⚡ Adjustable DC Output

Necessary adjustments to the DC output can be made by changing conveniently located quick-connect jumpers, thus providing additional flexibility.

⚡ User Selectable 80% Voltage Point

The E-Z Charge control may be set for an average 80% voltage point of 2.37 volts/cell or 2.45 volts/cell. The 2.45 volts/cell 80% voltage point is easily set by utilizing the dip switch located on the PC board.

⚡ Full Battery Charge Reject

The E-Z Charge recognizes batteries that are already fully charged when connected and automatically shuts off the charger. Fully charged batteries are protected from overcharge when mistakenly connected.

⚡ 100% Finish Rate

The E-Z Charge is equipped with a 100% finish rate, typically found only in higher rated chargers.

⚡ Warranty

Minimize repair costs with ten-year original purchaser warranty on power transformer and silicon diodes, plus one-year warranty on other components.

⚡ Quality-built for years of trouble-free service

Quality is the driving force behind the E-Z Charge. Its design allows it to meet the many challenges associated with charging batteries. Unmatched in construction, reliability and value, each E-Z Charge is subject to intensive quality control and test procedures to ensure many years of trouble-free service.



DISTRIBUTED BY:

Because we continually improve our products, specifications are subject to change without notice.
©2000, AMETEK, Inc. Prestolite Power, Troy, Ohio
Data Sheet: 1318 11/00 5M Printed in U.S.A.
Replaces: 11/99

AMETEK®
PRESTOLITE POWER

2220 Corporate Drive ⚡ Troy, Ohio ⚡ 45373-1099 ⚡ 800 367 2002