

Industrial Battery Chargers

*Interactive Silicon Controlled Rectifier (SCR)
Industrial Battery Charger Solutions for
Material Handling Equipment Applications*

ULTRA EXTREME™ (Fast Charger)

ULTRA MAXX (Opportunity Charger)

ULTRA CHARGE® (Traditional Charger)



AMETEK®
PRESTOLITE POWER

Choosing the right ULTRA charger

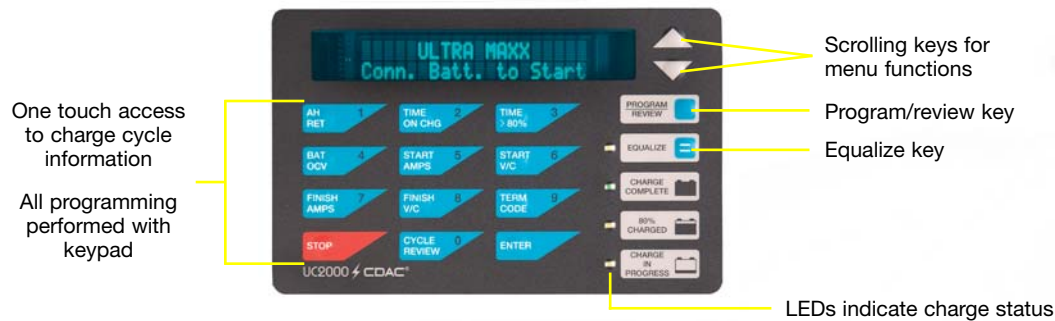
AMETEK Prestolite Power and Switch has over 87 years of experience manufacturing industrial battery chargers. Throughout that period, we have been on the leading edge of technology, providing our customers with customized solutions and allowing them to realize the benefits of battery-powered, pollution-free service.

What sets AMETEK Prestolite apart from the competition is our ability to evaluate an application and provide a solution based on specific requirements, not simply offer what we have available. We are able to provide a total solution, because we are the only manufacturer of high, mid-range, and standard power level SCR chargers.

Before we provide a solution, we conduct a site survey during which we intensely evaluate the application. Our evaluation includes number of shifts, battery discharge levels, available charge time and a host of other criteria that impact charger selection. In some cases, a 40A/100AH start rate is not required. In other instances, a 25A/100AH start rate is not aggressive enough. Oftentimes, a standard (100%) charger with changing equipment turns out to be the best solution. We understand key parameters and recommend a charger that will meet every requirement.

Our ULTRA SCR interactive chargers are ideal for a wide variety of environments. ULTRA chargers automatically adjust their output characteristics within the limits of their power circuit to inputs such as battery temperature and voltage to provide optimum charging. Our ULTRA chargers are designed around a silicon-controlled rectifier (SCR) power supply and feature state-of-the-art electronics

What makes the ULTRA chargers truly interactive is the state-of-the-art micro-controller in its UC2000 charge control. The UC2000 has two main components (control/regulator board and keypad/display) and three primary functions (review, archive and programming).



The ULTRA EXTREME and MAXX charge batteries right in the truck during break and shift changes. This allows truck batteries to maintain a consistent state of charge without changing batteries or unproductive trips to the battery room. Charging starts automatically and stops when the battery is disconnected or reaches full charge.

Unmatched in construction, reliability and value, the ULTRA chargers are engineered to meet the everyday challenges associated with charging batteries. They are subjected to intensive quality-control and test procedures to ensure years of trouble-free service.



ULTRA EXTREME™ (Fast Charger)

Three Shifts – Medium Duty (2-4 hours run time/shift)

Three Shifts – Heavy Duty (4-6 hours run time/shift)

(Start/End) State of Charge	Time
80-90%	51 minutes
70-90%	1 hour 15 minutes
60-90%	1 hours 36 minutes
50-90%	2 hours
40-90%	2 hours 24 minutes
20-90%	3 hours 12 minutes

Fast Charging Special Requirements:

- Charger equipped with dual cables and Euro or SBX connectors
- Battery equipped with BID, Euro or SBX connectors

ULTRA MAXX (Opportunity Charger)

Two Shifts – Medium Duty (2-4 hours run time/shift)

Two Shifts – Heavy Duty (4-6 hours run time/shift)

Three Shifts – Light Duty (0-2 hours run time/shift)

(Start/End) State of Charge	Time
80 - 90%	51 minutes
70-90%	1 hour 30 minutes
60-90%	2 hours 9 minutes
50-90%	2 hours 42 minutes
40-90%	3 hours 21 minutes
20-90%	4 hours 33 minutes

ULTRA CHARGE® (Traditional Charger)

Multi-shift with
battery change outs 16.3A/100AH (SCR)

Single and multi-shift
freezer applications 16.3A/100AH (SCR)

(Start/End) State of Charge	Time
0-100%	8 hours
20-100%	6 hours 45 minutes

Features and Benefits:

- > Up to 40A/100AH start rate
- > Charges 20% charged batteries to 80% in 2 hours or less
- > Rejects non-fast charge battery types to prevent high-current charging on standard batteries
- > Soft start mode, which determines the charging rate as the cycle is initiated
- > Automatically compensates for battery operating temperatures from 32° to 158°F with required Prestolite programmed BID module
- > Easy-to-change AC input voltage
- > Data Mate and CDAC compatible
- > Multi-cell/multi-ampere capabilities
- > Arc-less disconnect option is standard
- > CUL listed

Features and Benefits:

- > Up to 25A/100AH start rate
- > Charges 20% charged batteries to 80% in 3 hours or less
- > Bridges the performance gap between traditional and fast chargers
- > Lower charger costs
- > Uses existing batteries – no ventilation slots, no dual DC cable requirements, no double intercell connector
- > Requires Prestolite programmed BID module to automatically monitor battery temperature from 32° to 158°F during charge to maximize battery life (without the BID it will work like the ULTRA)
- > I-E-I charge profile for accurate and efficient charging
- > Easy-to-change AC input voltage
- > Data Mate and CDAC compatible
- > Multi-cell/multi-ampere capabilities
- > Arc-less disconnect option available
- > CUL listed

Features and Benefits:

- > Compatible with single/multi-shift applications with or without battery change out equipment
- > Start rate-16.3A/100AH
- > Charges 100% discharged batteries in 8 hours or less
- > Adapts to all battery types with 5 user-selectable charge curve options
- > Timer start mode lets user choose the time and rate of charge
- > Programming feature assigns battery capacity and type to voltage
- > Automatically compensates for battery operating temperatures from 32° to 158°F with optional Prestolite BID module
- > Easy-to-change AC input voltage
- > Data Mate and CDAC compatible
- > Multi-cell/multi-ampere capabilities
- > UL listed, CSA certified



AMETEK, Inc. is a leading global manufacturer of electronic instruments and electric motors with annualized sales of nearly \$1.1 billion. AMETEK has over 8,000 colleagues working at more than 70 facilities in the United States and 18 other countries around the world.

AMETEK Prestolite Power & Switch consists of two business segments: Prestolite Power, which has been a leader in industrial battery chargers for over 80 years, and Prestolite Switch, which is leading manufacturer of electrical contactors and switchgear components.

Prestolite Power (formerly Hobart Brothers Battery Charger Division) has set the industry standard worldwide for superior battery charging solutions. It manufactures Ferroresonant and silicone-controlled rectifier (SCR) industrial battery chargers, industrial battery connectors and cables, and battery charger controls. It also offers complete fleet management systems for material handling applications. Its product line ranges from the flexible, full-featured ULTRA CHARGE products with their automatic temperature compensation and multi-cell/multi-ampere capabilities to the economical LTD Charger product offering.

Prestolite Switch manufactures high-quality contactors and switchgear components for defense, telecommunications equipment, uninterruptible power supplies (UPS), and other high-dependency applications. Its standard product line includes DC contactors from 80 to 2000 amps, 500-volt contactors, enclosed contactors, emergency battery power disconnects, contactor spares, and switchgear components. In addition, Prestolite Switch manufactures a variety of open and enclosed contactors for forklifts, electric cars, hydraulic pumps, locomotives, buses, generator sets, switchgears, aircraft ground power units and golf carts.

AMETEK Prestolite Power & Switch reserves the right to change product specifications without notice.



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