

X-Series Industrial Battery Chargers

Charger Features

- 12, 24, 36, and 48 VDC models
- Proven Lester Electrical reliability
- Convection cooled with no moving parts
- SCR technology
- Advanced microprocessor control
 - Precise charging and termination algorithms
- Wet and Sealed charge profiles
 - Field selectable
- Storage/refresh mode
- Manual stop/start button
- Low battery voltage start button
- Self diagnostic button
- Ammeter and LED indicators
- Encapsulated controller
 - Protects against moisture and corrosion
- Charger protection
 - Voltage mismatch, reverse polarity, and short circuit
- UL listed and CSA certified
- Made in the USA

Advanced, Feature-Rich Chargers

X-Series are advanced SCR industrial battery chargers that offer industry-leading features. They are ideal for use in both specialized applications, such as industrial vehicles, aerial work platforms, and floor care, and general-purpose charging applications.

Reliable and Durable

The X-Series product line continues the tradition of proven Lester Electrical reliability. The case is heavy gauge and powder coated. The efficient convection-cooled design offers optimal heat dissipation without the need for a cooling fan, which further enhances reliability. X-Series battery chargers are made in the USA and tested to UL and CSA standards.

Optimum Battery Capacity and Life

An advanced microprocessor controller is featured in X-Series battery chargers. Precise Lester Electrical charging and termination algorithms prevent both undercharging and overcharging, optimizing both daily battery capacity and overall battery life.

Wet or Sealed Batteries

The X-Series product line can be ordered configured for Wet or Sealed batteries. An internal jumper can be used to select between the Wet or Sealed charge profile in the field.



Storage/Refresh Mode

X-Series battery chargers are designed to remain connected to batteries with the AC power on when equipment is not in use. A charger will periodically provide a special refresh/conditioning charge to the batteries during storage to overcome battery self-discharge and reduce sulfation.

Manual Stop/Start

The manual stop/start button available on X-Series battery chargers can be used to manually stop a charge cycle before automatic termination occurs to safely disconnect the battery. This button can also be used to restart a charge cycle that you previously manually stopped.

Low Battery Voltage Start

Overly-discharged batteries are not an issue for X-Series battery chargers. A low voltage start button is available to manually start a charge cycle for a low-voltage battery (down to 1V).

Self Diagnostic

If an issue occurs with a battery charging system containing an X-Series battery charger, you can press the innovative self diagnostic button to determine if the charger is functioning properly, and if not, which component needs to be serviced.

Encapsulated Controller

The X-Series controller is completely encapsulated in a protective material. This protects the electronics from moisture/corrosion.

Customizations and Private Branding

Lester Electrical offers customized chargers tailored for specific applications and customers. Charge profiles (software), DC and AC connectors and cables, private labeling, and documentation are just a few of our capabilities.

X-Series Industrial Battery Chargers

DC Output Volts	DC Output Amps	Amp-Hour Rating, C ₂₀ Rate (12 Hrs)	Model Number	AC Input Amps	Shipping Weight, Approx (Lbs)
12	25	150-305	26900	5	28
12	50	250-510	27020	9	35
24	25	150-305	27010	9.5	37
24	35	190-395	27030	12.5	42
36	25	150-305	27060	13.5	39
36	30	170-350	27050	14.5	45
48	17	105-210	27000	11.5	39



DC Output Ratings

Voltage (nom) See model table
 Start current (nom) See model table
 Battery types Wet and Sealed lead-acid (field selectable with internal jumper)
 Protection Electronic protection and DC fuse

Controls

Stop/Start, Low Voltage Start, and Self Diagnostic buttons

Indicators

Ammeter, Charge Status LED (green), and Self Diagnostic LED (red)

Mechanical

Dimensions (WxHxD) 8.69 x 9.38 x 11.00 in (221 x 239 x 280 mm)
 Shipping weight (approx) See model table
 Case material Powder-coated steel and aluminum
 AC cable length (min) 6 ft (1.82m)
 AC connector NEMA 5-15P, Type B (3-pin grounded)
 DC cable length (min) 8 ft (2.43m)
 DC connector Large variety available

Consult a Lester Electrical sales representative for AC and DC cable and connector options

Environmental

Operating temperature -20 °C to +45 °C
 Storage temperature -40 °C to +65 °C

Safety

UL listed and CSA certified

SPECIFICATIONS

AC Input Ratings

Voltage (nom) 120 VAC
 Frequency (nom) 60 Hz
 Phase Single-phase
 Current See model table
 Protection AC breaker

AC Input Tolerances

Voltage 110-132 VAC (charge times increase at lower AC voltages)
 Frequency 57-63 Hz

Represented By:



625 West A Street
 Lincoln, NE 68522-1794
 P: 877 DC AMPS 9
 F: 402.474.1769
 Sales@LesterElectrical.com
 www.LesterElectrical.com

Specifications are subject to change without notice.
 Document ID: LE8003.2
 Copyright © 2009 Lester Electrical of Nebraska, Inc. All rights reserved.