



**xtreme**

**CHARGE<sup>®</sup>**

*by PulseTech Products*

## Model XC100-P 12-Volt Charger



# FEATURE AND USE GUIDE



# Model XC100-P 12 Volt Charger

## FEATURE AND USE GUIDE

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## FEATURES

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- Pulse** Patented Pulse Technology increases the duty and life cycles of all 12 volt batteries by up to five times
- Desulfate** The unique application of patented PULSE conditioning provided by Pulsetech® Products increases performance and life cycles of any size or type of 12V lead-acid battery by minimizing the size of damaging lead sulfate crystals
- Test** Xtreme Charge® evaluates the battery during initial connection and tests it continually to determine the appropriate charge rate based on your battery's current capacity and condition. This TEST step also includes a "Bad Battery" indication if it determines the battery is faulty and cannot be re-charged.
- Charge** A proprietary microprocessor controlled integrated charging process measures both voltage and current and applies only the amount of charge your battery is able to accept at any given time. As the patented pulse technology is applied in combination with the saturation charge the battery's condition improves. This proprietary process inhibits and removes sulfation, protects your battery from overcharging and extends its operating life.
- Charge** The XC100-P is also designed to be a MAINTENANCE charger for any type of 12V lead-acid battery. Through application of our proprietary charge algorithms and high frequency pulsing processes, your battery is maintained safely at its proper operating voltage indefinitely. If the charger is connected to a discharged battery, its BULK charge capability (2.5 A actual/5 A effective) will re-charge the battery rapidly and safely so it can be put back into service quickly.
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## USE GUIDE

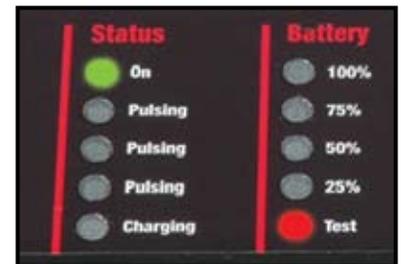
**Do not operate without first reading the Important Safety Instructions.**

Connect red battery clip to positive (+) battery post. Then connect black battery clip to negative (-) battery post.

Once you've connected the battery cables properly, you can begin the charging process. Plug Xtreme Charge® into 110-220 VAC power source.

## TEST

Green "On" light illuminates, indicating charger is receiving proper ac input. If it's connected to battery correctly, red "Test" LED lights, indicating unit is testing battery's condition.

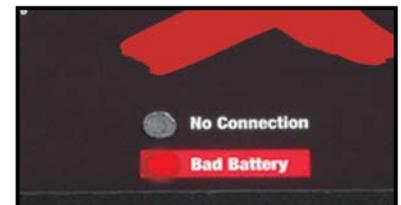


## FAULT CONDITIONS

If red "No Connection" light illuminates, charger is not connected to battery, or inline fuse on positive battery lead needs to be replaced.

Should all the lights flash on and off and an audible warning buzzer be heard, battery clamps are connected in reverse. Refer to Safety Instructions booklet for detailed procedures to make sure leads are connected properly.

If red "Bad Battery" LED lights, Xtreme Charge® is connected to a 6V battery or a 12V battery that is below 7 volts.



## CHARGING CONDITIONS

Once charger has evaluated battery's current condition, "Test" light goes off. The appropriate charge profile begins automatically.

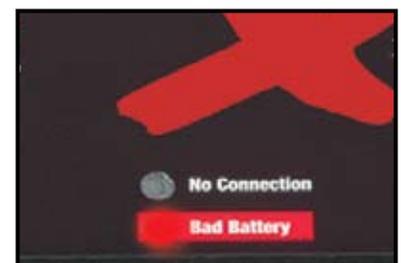
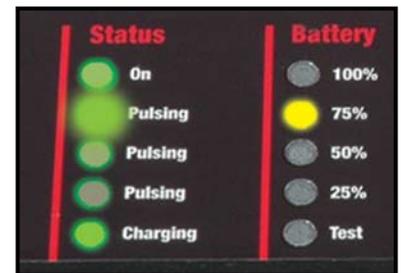
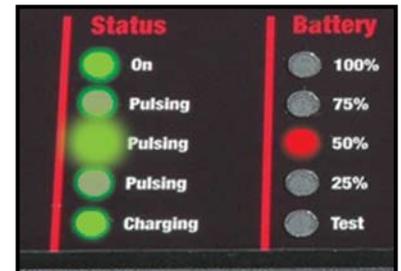
Green "Charging" light indicates Xtreme Charge<sup>®</sup> is providing bulk charge to battery.

Three green "Pulsing" LEDs light sequentially as charger conditions battery. Patented Pulse Technology enables it to accept and maintain its maximum charge.

During "Test" cycle, charger determines battery's state of charge and illuminates the appropriate light: "25%," "50%," "75%" or "100%."

After battery is charged fully, green "100%" light illuminates, and "Charging" light goes off. This indicates charger is providing float charge to battery. It may now be placed into service or left on the Xtreme Charge<sup>®</sup> indefinitely to maintain peak condition.

If battery has been pulsing and charging for 24 hours continuously without reaching 100% state of charge, unit discontinues charging. Red "Bad Battery" light illuminates, indicating the battery is non-rechargeable.



## **PULSE TECHNOLOGY**

The unique application of patented PULSE conditioning provided by Pulsetech® Products increases performance and life cycles of any size or type of 12V lead-acid battery by minimizing the size of damaging lead sulfate crystals. This allows your battery to accept more power than other chargers can provide. Our patented PULSE technology is NOT “Pulse Charging” which is commonly used in the market place today. It IS a totally unique 1-2 punch provided by the independent application of our unique high frequency conditioning pulse on one circuit and proprietary charging algorithms on another. This helps ensure that your new batteries will stay in like-new condition while your older batteries often improve dramatically.

## **SPECIFICATIONS**

Xtreme Charge® XC100-P includes charger with fuse-protected quick-disconnect battery clamps and lugs, Important Safety Instructions and Feature and Use Guide.

**Input Voltage - 100 - 250 VAC**

**Maximum Charge Current - 2.5A (5.0 Effective)**

**Nominal Float Voltage - 13.6V**

**Maximum Bulk Charge Voltage - 14.8V**

**Pulse Frequency - 40-50 kHz**

**Functional Output Cable Length - 8'**

**Agency Listing - UL Approved**

**Housing - Weatherproof Rubberized base**

# FIVE-YEAR LIMITED WARRANTY

PULSETECH® PRODUCTS CORPORATION

XTREME CHARGE® BATTERY MAINTENANCE CHARGER

**What Does This Warranty Cover?** This warranty covers any defects in workmanship or materials in this charger under normal use and service.

**How Long Does the Coverage Last?** This warranty runs for five (5) years from the date of purchase.

**What Will PulseTech Do?** PulseTech will, at its option, replace or repair any defective unit with a new or rebuilt unit at no charge.

**What Does This Warranty Not Cover?** This warranty applies only to the battery charger. This warranty does not cover any other equipment, static damage, water damage, over-voltage damage, dropping unit or damage resulting from extraneous causes including owner misuse. In addition, PulseTech will not be responsible under this warranty if PulseTech determines that (1) upon examination that the circuit board failure was (A) caused by misuse, neglect, accident, alteration or abnormal condition of operating or handling (including the failure to install the product in accordance with PulseTech's instructions and observe the warnings in the Feature and Use Guide and the Important Safety Instructions) or other conditions beyond the control of PulseTech or (B) damaged in transit to PulseTech, and (2) the owner is not the original purchaser that purchased the product through an authorized PulseTech dealer or distributor. This warranty is void if owner attempts to disassemble the unit or to modify the cable assemblies. IN NO EVENT SHALL PULSETECH BE LIABLE FOR ANY DIRECT, SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL, PUNITIVE OR EXEMPLARY DAMAGES, EXPENSES, LOST SAVINGS OR LOST PROFITS OR ANY OTHER DAMAGES OF ANY KIND FROM ANY BREACH OF THIS WARRANTY OR OTHERWISE. Some states, provinces or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

**How to Get Service?** Contact PulseTech by calling 1-800-580-7554 for a Return Authorization Number. Then send the product postage prepaid with proof of purchase (sales receipt) within the warranty period to PulseTech. Battery chargers beyond the warranty period are subject to the repair charges in effect at that time.

**How Does State, Province or Country Law Apply?** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state, province to province or country to country.

**THIS WARRANTY IS THE SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE**

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Model XC100-P



Southlake, TX 76092

U.S. Patent No. 7,834,592 B2

Additional U.S. patents pending



# PRODUCTS & ACCESSORIES



## 12V Xtreme Charger® w/Pulse Maintenance

Ideally suited for AGM and Maintenance-Free batteries. Increases the duty and life cycle of all 12V batteries up to five times longer.

Part #: 100X010

Model: XC100-P



## 12V 2-Channel Charger w/Pulse Maintenance

Double the charging capabilities of the popular XC100-P Xtreme Charge® 12V Battery Charger. Each station charges at a 2.5 A (5 A effective) charge rate at over 14.8 V.

Part #: 100X200

Model: X2



## Quick Mount Wall Bracket

Black powder coated 20-gauge steel. "Quick Mount" flex design for easy clip in and out use. Clip into the wall bracket for shop use or un-clip it and take it with you as needed. For XC100-P only.

Part #: 100X808

Model: XC-QM



## Full Enclosure Wall Bracket

Black powder coated 16-gauge steel full enclosure designed to suit heavy-duty, semi-permanent mounting requirements as needed. For XC100-P only.

Part #: 100X810

Model: XC-BKT



## 25' Extension Lead

Extend a standard lead by 25 feet with this extension. It features quick-disconnect terminals on both ends. Lead is 25 feet long.

Part #: 100X825

Model: XC-EXT-25



## QuadLink® 4-Channel Battery Charger Multiplier

Gives your existing 6V or 12V charger, no matter what the brand, the ability to charge up to FOUR batteries at once.

Part #: 100X004

Model: XC-QL4



## Battery Lead with Clips

This 7.5-amp fuse-protected cable is supplied with a quick-disconnect terminal. Lead is 2 feet long.

Part #: 100X827

Model: XC-CLIPS



## "Leave-On" Battery Lead with Lugs

XtremeCharge® 7.5-amp fuse-protected cable comes with a quick-disconnect terminal. Lead is 2 feet long.

Part #: 100X830

Model: XC-LUGS



## Quick Battery Tester

Assess your 12-volt battery's health quickly with this pocket-sized tester. It will be the most used tester in shops, garages and any areas where battery checks are performed.

Part #: 100X822

Model: XC822-TEST



**To purchase any of these items, contact an authorized XtremeCharge® dealer, visit [www.PulseTech.net](http://www.PulseTech.net) or call 800-580-7554.**