PulseTech™

XTREME CHARGE® XC400

200X010

12V 4 Amp Conditioning and Maintenance Charger



FEATURE AND USER GUIDE

Model XC400 Feature and User Guide

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Features

Pulse Patented Pulse Technology increases the duty and life cycles of all 12 volt batteries by up to three times.

Desulfate The unique application of patented PULSE conditioning by PulseTech® enhances battery performance and extends 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. When the patented pulse technology is combined with saturation charging, the battery's condition improves. This proprietary process inhibits and removes sulfation, protects your battery from overcharging and extends its operating life.

Charge The XC400 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 (4 Amp) will re-charge the battery rapidly and safely so it can be put back into service quickly.

User Guide

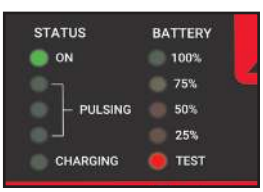
Do not operate without first reading the Important Safety Instructions.

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 110-240 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.



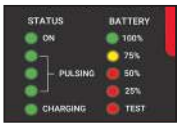
FAULT CONDITIONS

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, 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 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.

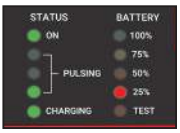
Green “Charging” light indicates Xtreme Charge® is providing bulk charge to battery.

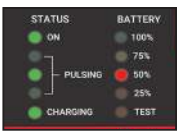
Three green “Pulsing” LEDs light sequentially as charger conditions battery. Patented Pulse Technology enables it to accept and maintain its maximum charge.

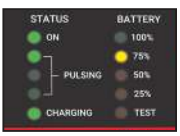
During “Test” cycle, charger determines battery’s state of charge and illuminates the appropriate light: “25%,” “50%,” “75%” or “100%.”

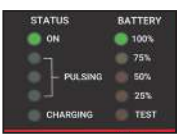
After battery is charged fully, green “100%” light illuminates, and “Charging” light goes off. This indicates charger is providing float charge to battery. It may now be placed into service or left on the Xtreme Charge® indefinitely to maintain peak condition.

If the battery has been pulsing and charging continuously for 24 hours without reaching full charge, the unit will stop 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 the same as ‘Pulse Charging,’ which is commonly found in the marketplace 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® XC400 includes charger with fuse-protected quick-disconnect battery clamps and lugs, Important Safety Instructions and Feature and Use Guide.

Input Voltage - 110-240 VAC, 50/60 Hz, 1.0A
Maximum Charge Current - 4 Amps
Nominal Float Voltage - 13.6 V
Maximum Bulk Charge Voltage - 14.8 V
Pulse Frequency - 40-50 kHz
Functional Output Cable Length - 8’
Dimensions - 7.15” L x 3.62” W x 1.96” H

5-Year Limited Warranty

PULSETECH PRODUCTS CORPORATION

What Does This Warranty Cover? This warranty covers any defects in workmanship or materials in the product 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, repair the unit or replace the unit with a re-manufactured unit at no charge.

What Does This Warranty Not Cover? This warranty applies only to the product and does not cover any other equipment, static damage, water damage, over-voltage, dropping of the unit or damage resulting from extraneous causes. The warranty is void if the owner attempts to disassemble the unit or modify the cable assembly. In addition, PulseTech will not be responsible under this warranty if PulseTech determines that (1) upon examination that the unit's 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 on the product and the instruction manual), or other conditions beyond the control of PulseTech or (B) damaged in transit to PulseTech, or (2) the owner is not the original purchaser that purchased the product from PulseTech directly or through an authorized PulseTech dealer or distributor. 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? Send the product postage prepaid with proof of purchase (sales receipt) within the warranty period to the authorized reseller where the product was purchased or contact PulseTech directly by calling 1-800-580-7554.

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.

PulseTech™

Model: XC400 Part #: 200X010

Flower Mound, TX 75028

Patent Numbers: 7,834,592B2 and 8,269,466B2 and 8,269,465B2

PRODUCTS & ACCESSORIES



12V 4 Amp 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 three times longer.

Part #: 200X010, Model: XC400

QuadLink™ 4-Channel Battery Charger Multiplier

Turns any 6/12V battery charger (using the standard SAE 2-prong output connector) into a 4-station maintenance charger.



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

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



Part #: 100X830, Model: XC-LUGS



5' and 25' Extension Lead

Extend a standard lead by 5 or 25 feet with these extensions. They feature quick-disconnect terminals on both ends. Lead is 5 feet or 25 feet long.

Part #: 100X805, Model: XC-EXT-5 Part #: 100X825, Model: XC-EXT-25

Quick Battery Tester

Assess your 12V battery's state of charge 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: XC-822-TEST