



Cybortronics Inc.

**CYBORTRONICS 120 VDC ELECTRIC VEHICLE BATTERY CHARGERS
MODELS CYB1200-120**

INTRODUCTION / DESCRIPTION:

Thank you for choosing this Cybortronics electric vehicle battery charger. This economical charger has been designed to UL safety specifications to provide unlimited years of safe service. It is designed to deliver the maximum current possible from any standard 120 volt 15 amp outlet for the best possible convenience when charging at sites other than home base. It is transformer isolated and includes fusing in both the input and output lines. LED indicators and 20 amp current meter answer all of your questions as to state of charge cycle. Also included with your charger is an 8 gauge patch cord with connector and ring lugs enabling you to install and begin charging your batteries in minutes. The charger contains an electronic circuit designed to monitor and indicate the voltage of your battery pack and control the power from the wall outlet. It will deliver power to the batteries constantly until a voltage of 2.37 volts per cell is achieved. Then it will begin FINISH CHARGING by cycling on and off for the duration of a 12 hour charge cycle in order to finish charge the batteries keeping gassing to a minimum.

INSTALLATION:

Included with your charger package is an 8 gauge patch cord with a 50 amp connector on one end and ring lugs on the other. This cord is color coded as follows: The red conductor or the black conductor with the red band designates the positive side of your battery pack. The black conductor designates the negative side of your battery pack. Install this patch cord black to negative and red to the positive fuse. THIS POLARITY IS VERY IMPORTANT. IF YOU HAVE ANY DOUBTS, PLEASE SPEAK WITH YOUR DISTRIBUTOR OR PHONE US HERE AT THE FACTORY. There is most likely a fuse between the positive terminal of your battery pack and the controller. If not, we strongly advise that you add one.

Attach this lead on the controller side of the fuse. THIS WILL CAUSE THE FUSE TO BLOW SHOULD THE CHARGER PATCH CORD BE PINCHED IN A HOOD OR TRUNK LID, OR BECOME SHORTED.

This battery charger can travel with the vehicle or remain at a fixed location. Should it be carried in the vehicle, it can remain attached to the batteries at all times.



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To operate this charger, turn the power switch off and plug the charger into an outlet. Plug the charger output into your vehicle patch cord (if necessary). When you turn the charger switch on, power will be applied within a few seconds and the red CHARGING lamp will light. **The power switch also initiates a 12 hour timer that resets each time you turn the charger off.** The charger will push the current into the batteries at a rate of 3 to 14 amps depending on the state of charge of your battery pack and will begin FINISH CHARGING, or cycling off and on, when the batteries reach a voltage level of 2.37 volts per cell. You will know this by observing the CHARGING lights and the FINISH CHARGING lights alternately blinking. This FINISH CHARGING will continue through the duration of the 12 hour cycle at which time the CYCLE COMPLETE lamp will light and the charger will turn off.

SHOULD YOU HAVE ANY QUESTIONS, PLEASE CONTACT YOUR DISTRIBUTOR OR PHONE US DIRECT HERE AT THE FACTORY (714) 855-2814