



*Battery Chargers  
For Sealed or Valve Regulated  
Lead Acid Batteries  
A-C Series*

**OPERATING PROCEDURES AND SAFETY INSTRUCTIONS**



**CAUTION:**  
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO  
NOT REMOVE COVER OR USER FRIENDLY PARTS

**CAUTION**  
THIS UNIT SHOULD NOT BE USED IN OUTDOOR APPLICATIONS.  
EXPOSURE TO MOISTURE MAY RESULT IN FIRE OR SHOCK HAZARD

## IMPORTANT SAFETY INSTRUCTIONS

**SAVE THESE INSTRUCTIONS**— This document contains important safety and operating instructions for all FC-Series battery chargers. Before using the battery charger please read all instructions and cautionary markings on the battery charger, the battery and the product using the battery.

### CAUTION!

To reduce the risk of electric shock:

- Do not expose the unit to rain or moisture—use indoors only.
- Do not remove cover. There are no user serviceable parts inside. Refer service to qualified service personnel.
- The plug must be plugged into an outlet that has been properly installed and grounded in accordance with all local and national codes and ordinances.
- Disconnect charger from AC power before attempting any maintenance or cleaning. Turning off controls may not reduce this risk.

### WARNING!

- Do not attempt to recharge non-rechargeable batteries. Charge only sealed or valve regulated, lead-acid, non-automotive, maintenance free rechargeable batteries. Attempting to charge other types of batteries may result in personal injury and battery damage.
- The enclosure will become hot during the charging cycle—DO NOT TOUCH!
- Connect or disconnect the output connectors only when the unit is disconnected from AC power or arcing and burning may result (due to the possible presence of explosive gases).
- Ensure correct polarity connection: positive (red) to positive, negative (black) to negative.
- Do not leave chargers plugged in when they are not connected to a battery.

### DANGER!

- Never make alterations to the charging unit provided. If it will not fit the outlet have a proper outlet installed by a qualified electrician. Improper connection will result in the risk of an electric shock or fire.
- Make sure any cords are located so that they will not be stepped on, tripped over, or otherwise subjected to damage or stress. Do not operate this unit with a damaged cord or plug – replace the complete unit immediately. To reduce the risk of damage to electric plug, pull by plug rather than cord when disconnecting unit.
- Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way. Do not disassemble charger; incorrect reassembly will result in the risk of an electric shock or fire. Refer service to qualified service personnel.
- Recharge batteries in well ventilated areas to prevent build-up of explosive gases. Allow space around the charger and adequate air circulation to reduce internal heat buildup.

- Make sure that the current output of the charger is within recommended parameters for the selected battery as described by the battery manufacturer.
- Always keep children away from charging equipment when it is in use. Do not allow them to handle or play with the chargers when they are not in use.

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## GENERAL DESCRIPTION

This unit is designed to operate in a single stage, float charge mode. This unit is not designed to operate as a standalone power supply. The operating temperature range for AC-Series chargers is 32°F - 104°F (0°C - 40°C)

This unit is designed to automatically switch into a single stage, float charge mode when the battery is charged. This unit is not designed to operate as a standalone power supply.

## OPERATING INSTRUCTIONS

Before using this battery charger, make sure it is compatible with your battery. Refer to the ratings on the battery charger, the specifications in this manual, and your battery documentation.

The charger (except for PSC-1210000A-C) may be used with input voltages of 110-240 VAC, 50 or 60Hz.

Please note that the PSC-1210000A-C is only available for use with input voltages of 90–132V 60Hz. This charger is ideally suited for batteries from 40-100AH. The charger may also be used for charging batteries from 100-140AH, but the charging time will be increased.

Make sure that the nominal voltage of the charger matches the nominal voltage of the battery.

Attach the charger leads to the terminals of the battery before plugging the charger in to the power outlet. After the charger has been plugged into the power outlet the LED light will indicate that the power is on

After the charger has been connected to the power the red LED will light up . This indicates that the charger has gone into **Fast Charge** mode.

The green LED will light up when the charger has switched to **Float** voltage indicating that the battery is close to being fully charged.

Please refer to the Charging Characteristics Curve on page 4.

## CHARGING BATTERIES

Our Technical Manual provides detailed information about charging procedure. A copy can be downloaded from our website: [www.power-sonic.com](http://www.power-sonic.com) (go to Technical and click on the tab at the right hand side of the page).

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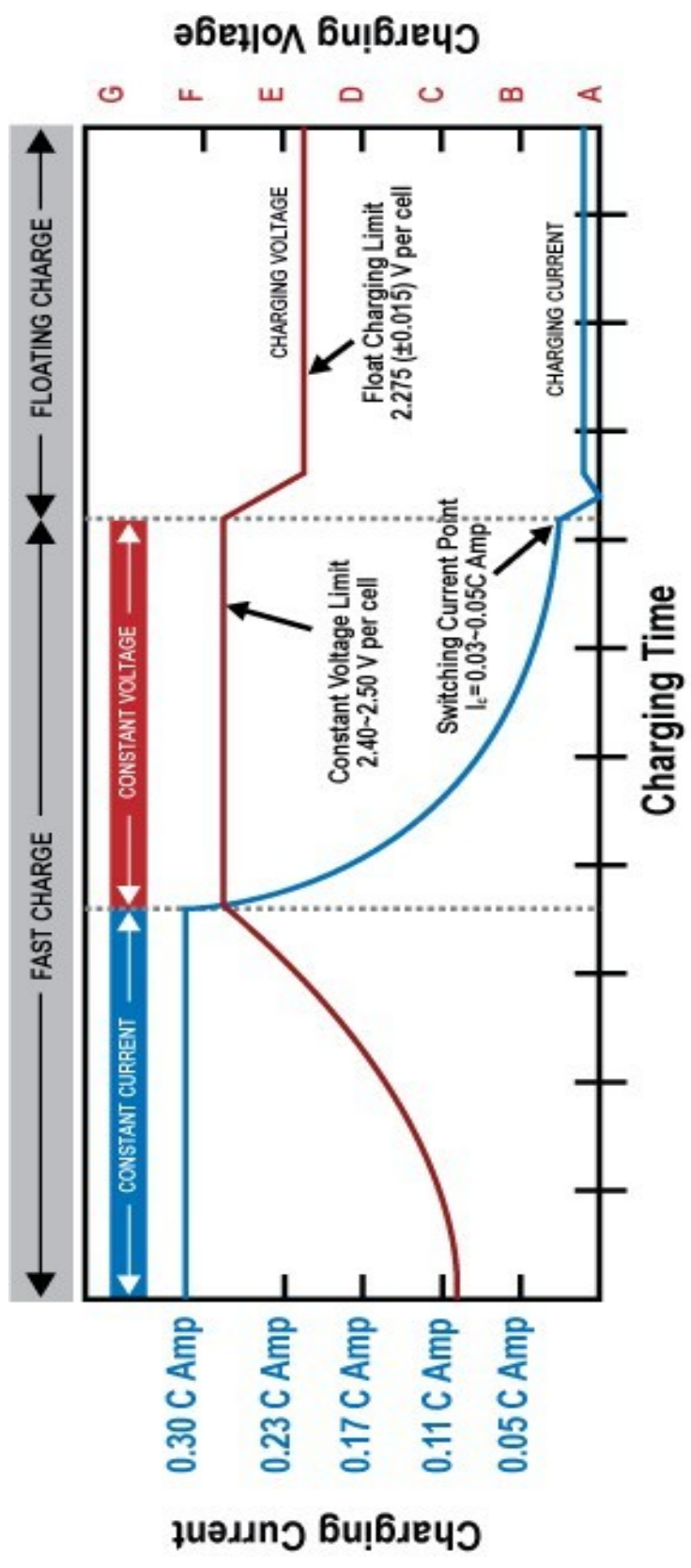
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CHARGING VOLTAGE AXIS				
CHARGING VOLTAGE AXIS	6V CHARGER	12V CHARGER	24V CHARGER	
G	8.00	16.00	32.00	
F	7.50	15.00	30.00	
E	7.00	14.00	28.00	
D	6.50	13.00	26.00	
C	6.00	12.00	24.00	
B	5.50	11.00	22.00	
A	5.00	10.00	20.00	