2. PRODUCT DESCRIPTION

- The WP-BC Supreme Battery Charger includes the items listed below:

  Battery Pos: Bank 1

  Battery Pos: Bank 2

  Battery Pos: Bank 3

  Battery Pos: (Bank 1)

  Battery Pos: (Bank 2)

  Battery Pos: (Bank 3)

- The charger can also act as an inverter to power auxiliary AC loads by setting the charger for DC/AC output. With this setting, the charger will act as a variable current and variable voltage constant output AC charger (0-2.5A). It can be used for AC loads such as lamps, fans, etc.

3. UNDERSTANDING THE UNIT

- Two product displays are available on the charger:

  - A 7-segment display (standard on WP-BC 12/60-3) indicating silent equipment or devices.

  - The DC current and temperature can be monitored on the display.

- Two product displays are available on the charger:

  - A 7-segment display (standard on WP-BC 12/60-3) indicating silent equipment or devices.

  - The temperature sensor and easy compatibility with generator or multistage charger algorithms are standard.

- The battery charger is equipped with a sensor port that measures the battery temperature and will make small adjustments to the charging current to ensure the battery is charged to its full capacity.

- For safe and optimum performance, the WP-BC Supreme Battery Charger must be used properly. Carefully read and follow all instructions and guidelines in this manual and give special attention to the warnings and cautions.

Caution:

- For indoor use only.
- Before charging, read the instructions.
- This appliance is intended for use by persons (including children with reduced physical, sensory or mental capabilities, or who may lack experience and knowledge), only if they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the product.
- Do not charge non-rechargeable batteries because of the danger of explosion.
- During charging, batteries should be placed in the ventilated area.
- The battery terminal which is not connected to the chassis has to be insulated.
- The other connection to be made is the chassis, remote from the battery and final load. The battery charger is then to be connected to the final mains.

- When adjusting the charger, the battery charger from the supply mains to the charger must be on the chassis connection which ensures the battery connection.
- Only allow children at least 8 years old to use the battery charger. Give sufficient instruction so that the child is able to use the battery charger in a safe and effective way.
- The battery charger is damaged, it must be repaired.
- The charger will not operate if the display is not lit properly.
- For indoor use only.

Important safety information

This section contains important safety information for the WP-BC Supreme Battery Charger. Before using the unit, read and follow the instructions carefully. This product is designed to work with rechargeable lead acid batteries.

WARNING: The WP-BC Supreme Battery Charger (WP-BC 1200-3) can produce temperatures up to 250°F (121°C) during operation. These temperatures can cause burns and may damage the batteries and the charger itself.

1. INTRODUCTION

The WP-BC Supreme Battery Charger will provide a safe and reliable charging system that does not damage your batteries. It is designed to be used with any type of rechargeable lead-acid battery and is compatible with multiple charging algorithms.

2. PRODUCT DESCRIPTION

The WP-BC Supreme Battery Charger includes the following features:

- Two product displays are available on the charger:

  - A 7-segment display (standard on WP-BC 12/60-3) indicating silent equipment or devices.

  - The DC current and temperature can be monitored on the display.

- Two product displays are available on the charger:

  - A 7-segment display (standard on WP-BC 12/60-3) indicating silent equipment or devices.

  - The temperature sensor and easy compatibility with generator or multistage charger algorithms are standard.

- The battery charger is equipped with a sensor port that measures the battery temperature and will make small adjustments to the charging current to ensure the battery is charged to its full capacity.

- For safe and optimum performance, the WP-BC Supreme Battery Charger must be used properly. Carefully read and follow all instructions and guidelines in this manual and give special attention to the warnings and cautions.

Caution:

- For indoor use only.
- Before charging, read the instructions.
- This appliance is intended for use by persons (including children with reduced physical, sensory or mental capabilities, or who may lack experience and knowledge), only if they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the product.
- Do not charge non-rechargeable batteries because of the danger of explosion.
- During charging, batteries should be placed in the ventilated area.
- The battery terminal which is not connected to the chassis has to be insulated.
- The other connection to be made is the chassis, remote from the battery and final load. The battery charger is then to be connected to the final mains.

- When adjusting the charger, the battery charger from the supply mains to the charger must be on the chassis connection which ensures the battery connection.
- Only allow children at least 8 years old to use the battery charger. Give sufficient instruction so that the child is able to use the battery charger in a safe and effective way.
- The battery charger is damaged, it must be repaired.
- The charger will not operate if the display is not lit properly.

Important safety information

This section contains important safety information for the WP-BC Supreme Battery Charger. Before using the unit, read and follow the instructions carefully. This product is designed to work with rechargeable lead acid batteries. Standard temperature sensor and easy to read remote control panel.

- Multi-stage charger algorithms for fast and safe recharge
- Extend the lifetime of your battery banks
- High current outputs as standard
- Auto ranging universal AC input 90…265Vac
- Wide frequency range 47…63Hz
- Compatible with generator or solar power sources
- Setting for GEL, AGM, Lithium-ion and lead acid batteries

3. UNDERSTANDING THE UNIT

- When reading the units manual to understand the battery connected to the charger.
- When using a product protection and precision.
Controller Options

- Remote AC compartment cover by removing the two screws from the top panel of the AC wiring compartment.
- Keep the connection between the battery and the charger as long as possible.
- Connect one end of the remote cable to the Bank 3 of the charger remote terminal using -10A, -30A, -60A, or -45B pin. Connect the other end to the over current protection device, then the DC disconnect device. Do not over-current. This may result in damage to the charger.
- Connect another wire to the DC disconnect device to the remote terminal of the charger. Connect the other end of the remote terminal of the battery bank.
- Place the DC compartment cover back to the original position and secure the cover using the two screws provided.

AC Input Wiring

WARNING: The AC wire must be appropriately sized, and it must be protected by an appropriate circuit breaker (and proper conduits connected between the AC source and the charger). A color coded #14 AWG wire, #10 GND and with a neutral conductors must be used.

Before connecting the remote, make sure the DC source is off.
- Remote AC compartment cover by unconnecting the two screws located at the top of the AC compartment cover.
- Remote DC compartment cover by unconnecting the shaded wire located at the bottom of the base panel inside the AC wiring compartment.
- Unplugging the sun shade blind mounting screw.

- Use the provided bulk options to select the AC input voltage, N, and GND to the customer provided choice.
- AC input wiring too small would result in excessive heat generation at the battery level located at the battery's bottom base panel.

Connect the shield of the AC wiring to the power outlet branch circuit and connect it to the AC power source.

Connect the AC source wires from the charger connector to the blades labeled as follows: DC output positive to Black AC extended wire, Charger AC Neutral (white color) to Black AC extended wire, and secure the cover using the two screws provided.

AC Input and DC Output Connection:

Charger Input:

WP-BC 12/60-3

WP-BC 12/40-3

WP-BC 12/20-3

WP-BC 12/10-3

WP-BC 12/5-3

DC Output:

Temperature Setting

Cooling

Reverse Battery

Charger Efficiency

Power Factor Correction

Charging Control

6. SPECIFICATIONS

One Year Limited Warranty

- Note: all specifications are subject to change without notice.

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