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## Banshee 6V/12V 3.0A Smart Charger

# Banshee 6V/12V 3.0A Smart Battery Charger User Manual

Model: 6V/12V 3.0A Smart Charger

## INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Banshee 6V/12V 3.0A Smart Battery Charger. This charger is designed for 6V and 12V lead-acid batteries, featuring a 3-stage charging process and automatic shutoff for optimal battery health and safety. Please read this manual thoroughly before use and retain it for future reference.

## SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the charger or battery:

- **Read all instructions:** Before using the charger, read all instructions and cautionary markings on the charger, the battery, and the product using the battery.
- **Ventilation:** Ensure adequate ventilation when charging. Batteries can produce explosive gases.
- **Eye Protection:** Always wear eye protection when working with batteries.
- **Avoid Sparks:** Do not smoke or allow a spark or flame in the vicinity of the battery or engine.
- **Disconnect Power:** Always disconnect the AC power supply before connecting or disconnecting the battery clamps.
- **Polarity:** Connect the positive (+) red clamp to the positive (+) battery terminal and the negative (-) black clamp to the negative (-) battery terminal. Incorrect polarity can cause damage.
- **Indoor Use:** This charger is designed for indoor use only. Do not expose to rain or moisture.
- **Children:** Keep out of reach of children.
- **Damaged Charger:** Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged.

## PRODUCT OVERVIEW

The Banshee 6V/12V 3.0A Smart Battery Charger is a compact and efficient device for maintaining and charging lead-acid batteries. It features intelligent charging modes and safety protections.



**Figure 1:** Overview of the Banshee 6V/12V 3.0A Smart Battery Charger, showing the main unit, AC power cord, and battery connection clamps (red for positive, black for negative).



**Figure 2:** Detailed view of the charger unit, highlighting the "SMART CHARGER" label, "For 6-12V Lead-Acid Battery" text, and the 6V and 12V LED indicators on the top surface.



**Figure 3:** Close-up of the robust battery clamps. The red clamp is for the positive terminal, and the black clamp is for the negative terminal, ensuring secure connection to the battery.

## Components:

- **Charger Unit:** The main body containing the charging circuitry and indicator LEDs.
- **AC Power Cord:** Connects the charger to a standard wall outlet (100-240V AC).
- **Battery Clamps:** Red (+) and Black (-) clamps for connecting to the battery terminals.
- **LED Indicators:**
  - **Red LED:** Indicates the battery is currently charging.
  - **Green LED:** Indicates the battery is fully charged.

## SETUP

Follow these steps for initial setup:

1. **Placement:** Place the charger on a stable, flat surface in a well-ventilated area, away from direct sunlight, heat sources, and moisture.
2. **Battery Preparation:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush or battery terminal cleaner.
3. **Voltage Selection:** The charger automatically detects 6V or 12V batteries. No manual selection is required.

## OPERATING INSTRUCTIONS

To charge a battery, follow these steps carefully:

1. **Connect to Battery:**
  - Connect the **RED (+)** positive clamp to the positive (+) terminal of the battery.
  - Connect the **BLACK (-)** negative clamp to the negative (-) terminal of the battery.
  - Ensure connections are secure.
2. **Connect to Power:** Plug the AC power cord of the charger into a standard 100-240V AC wall outlet.
3. **Charging Indication:** The Red LED on the charger will illuminate, indicating that charging is in progress.

**4. Charging Process:** The charger will automatically proceed through its 3-stage charging cycle:

- **Constant Current:** Charges at  $3.0A \pm 0.3A$  until voltage reaches a certain level.
- **Constant Voltage:** Charges at  $14.3V$  to  $14.7V$  for  $12V$  batteries, or  $7.2V$  to  $7.4V$  DC for  $6V$  batteries.
- **Floating Voltage:** Maintains the battery at  $13.5V$  to  $13.8V$  for  $12V$  batteries, or  $6.7V$  to  $6.9V$  DC for  $6V$  batteries, preventing overcharge.

**5. Full Charge Indication:** When the battery is fully charged, the Green LED will illuminate, and the Red LED will turn off. The charger will automatically switch to float mode.

#### 6. Disconnecting:

- First, unplug the AC power cord from the wall outlet.
- Then, disconnect the BLACK (-) negative clamp from the battery.
- Finally, disconnect the RED (+) positive clamp from the battery.

## MAINTENANCE

Proper maintenance ensures the longevity of your charger:

- **Cleaning:** Clean the charger casing with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep cables neatly coiled.
- **Cable Inspection:** Periodically inspect the AC power cord and battery cables for any signs of damage, fraying, or exposed wires. Do not use if damaged.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not turning on / No LEDs lit	No AC power; Faulty outlet; Damaged charger.	Check AC power connection and outlet. Try a different outlet. If still no power, the charger may be damaged.
Red LED not illuminating when connected to battery	Incorrect battery connection (polarity); Battery is already fully charged; Battery is severely discharged or faulty.	Verify correct polarity (+ to +, - to -). Check if Green LED is already lit. Test battery condition.
Green LED not illuminating after extended charging	Battery is very large or deeply discharged; Battery is faulty and cannot hold a charge.	Allow more time for charging. If the battery does not reach full charge after a prolonged period, it may need replacement.
Charger gets warm during operation	Normal operation; Insufficient ventilation.	It is normal for the charger to get warm. Ensure it is in a well-ventilated area and not covered.

## SPECIFICATIONS

Feature	Detail
Product Model	Banshee 6V/12V 3.0A Smart Charger
Input Voltage	100-240V AC, 50/60Hz, 1.0A
Output Voltage	6V DC or 12V DC (Automatic Detection)

Feature	Detail
Charging Current	3,000mA (3.0A)
Charging Modes	3-Stage (Constant Current, Constant Voltage, Floating Voltage)
Constant Current	3.0 ±0.3A
Constant Voltage (12V)	14.3 to 14.7V
Constant Voltage (6V)	7.2 to 7.4V DC
Floating Voltage (12V)	13.5 to 13.8V
Floating Voltage (6V)	6.7 to 6.9V DC
Dimensions (L x W x H)	120.0 x 60.0 x 38.0mm
Weight	Approximately 1.5 pounds
Safety Protections	Short-circuit protection, Battery polarity error protection, Over-voltage protection
Compliance	CE standards

## WARRANTY AND SUPPORT

The Banshee 6V/12V 3.0A Smart Battery Charger comes with a **2-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

### Warranty Exclusions:

- Damage caused by misuse, abuse, neglect, or accident.
- Unauthorized repair or modification.
- Damage due to improper installation or connection.
- Normal wear and tear.

### Customer Support:

For technical support, warranty claims, or general inquiries, please contact Banshee customer service. Refer to your purchase documentation or the official Banshee website for the most current contact information.

**Online Resources:** For additional information and FAQs, please visit the official Banshee website: [Banshee Premium Motorsports](#) [Batteries Store](#)

 <p><b>Banshee 14-BS Replacement Battery Compatibility Guide for Powersports Vehicles</b></p> <p>This guide lists compatible vehicle models for the Banshee 14-BS replacement powersports battery, covering ATVs, Snowmobiles, UTVs, Motorcycles, and Scooters from major manufacturers.</p>	
 <p><b>Banshee 12B-BS Battery Compatibility Guide for Motorcycles and Scooters</b></p> <p>Find the correct Banshee 12B-BS replacement battery for your Ducati, Kawasaki, Triumph, Yamaha, or Piaggio-Vespa motorcycle or scooter. This comprehensive compatibility list helps you identify the right fit.</p>	
 <p><b>Banshee 12B-BS Motorcycle Battery - Sealed Maintenance-Free AGM</b></p> <p>Detailed specifications and features for the Banshee 12B-BS Sealed Maintenance-Free AGM motorcycle battery. Includes voltage, capacity, CCA, dimensions, temperature range, and performance data from BigTimeBattery.com.</p>	
 <p><b>Banshee LMX30HL-LFP Replacement Motorsports Battery Compatibility Guide</b></p> <p>Comprehensive compatibility list for the Banshee LMX30HL-LFP replacement motorsports battery, detailing compatible models across ATVs, Snowmobiles, Motorcycles, and UTVs from leading manufacturers like Polaris, BRP, Arctic Cat, BMW, Harley-Davidson, and more.</p>	
 <p><b>Banshee 20L-BS Replacement Motorsports Battery Compatibility Guide</b></p> <p>Find Banshee 20L-BS battery compatibility for Motorcycles, Personal Watercraft (PWCs), UTVs, ATVs, and Snowmobiles from brands like Buell, Harley-Davidson, and BRP (Sea-Doo, Can-Am, Ski-Doo).</p>	
 <p><b>Banshee LMX30HL-LFP Powersport Battery - Specifications &amp; Features</b></p> <p>Detailed specifications, dimensions, and features for the Banshee LMX30HL-LFP Sealed Maintenance Free Powersport Battery. This LiFePO4 battery offers high cranking power, rapid recharge capabilities, and an extended lifespan for powersport applications.</p>	