

Banshee F120-030-D

Banshee Titan 3.0ah Lead-Acid Battery Smart Charger

MODEL: F120-030-D

User Instruction Manual

Important Safety Information

Read all instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **For Lead-Acid Batteries ONLY:** This charger is designed exclusively for 12V lead-acid batteries. Do not attempt to charge any other battery types, especially lithium batteries, as this may cause damage to the charger, battery, or personal injury.
- **Ventilation:** Ensure adequate ventilation when charging. Batteries can produce explosive gases.
- **Eye Protection:** Always wear eye protection when working near batteries.
- **Avoid Sparks:** Do not smoke or allow a spark or flame in the vicinity of the battery or engine.
- **Connection Order:** Connect the charger output clips to the battery first, then plug the charger into the AC power outlet. Disconnect in reverse order.
- **Dry Location:** Use this charger in dry locations only. Do not expose to rain or moisture.
- **Damaged Charger:** Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged.
- **Children:** Keep out of reach of children.



***This charger/maintainer
is designed for use on
LEAD ACID BATTERIES.
It is not for lithium batteries.***

Image: Banner emphasizing the charger is for lead-acid batteries.

Product Overview

The Banshee Titan 3.0Ah Smart Charger (Model F120-030-D) is designed to efficiently charge and maintain 12V lead-acid batteries. It features a 3-stage charging mode to prevent overcharging and includes built-in overcharge protection. The charger provides a constant current of 3.0A and automatically switches to a floating voltage once the battery is fully charged.



Image: Top view of the Banshee Titan 3.0Ah Lead-Acid Battery Smart Charger, showing its compact black casing.



Image: Detailed view of the charger's label, indicating input/output specifications and LED status.

Specifications

Feature	Specification
Model Number	F120-030-D
Input Voltage	100-240VAC, 50-60Hz, 1.0A
Output Voltage	12V DC
Charging Current	3A (3,000mA)
Charging Mode	3-Stage (Constant Current, Constant Voltage, Floating Voltage)

Feature	Specification
Constant Voltage	14.3V to 14.7V
Floating Voltage	13.5V to 13.8V
Compatibility	12V Rechargeable Lead-Acid Batteries
Protection	Overcharge Protection, Short Circuit Protection
Material	Titanium (housing)
Color	Black (with Green/Red indicators)

Setup

- 1. Prepare the Battery:** Ensure the 12V lead-acid battery is clean and free of corrosion on its terminals. If necessary, clean the terminals with a wire brush.
- 2. Connect to Battery Terminals:**
 - Connect the **RED** positive (+) charger clip to the **RED** positive (+) battery terminal.
 - Connect the **BLACK** negative (-) charger clip to the **BLACK** negative (-) battery terminal.



Image: Close-up of the red and black alligator clips, indicating proper connection to battery terminals.

3. **Connect to Power Outlet:** Once the charger clips are securely connected to the battery, plug the charger's AC power cord into a standard 100-240VAC wall outlet.



Image: The AC power plug of the charger, ready to be inserted into a wall outlet.

The Banshee Titan Smart Charger operates automatically once connected. It features a 3-stage charging process to ensure optimal battery health and prevent overcharging.

- **Stage 1: Constant Current (Bulk Charge):** The charger delivers a constant 3.0A current to rapidly charge the battery until it reaches approximately 80% of its capacity.
- **Stage 2: Constant Voltage (Absorption Charge):** The charger maintains a constant voltage between 14.3V and 14.7V, allowing the battery to absorb the remaining charge and reach full capacity.
- **Stage 3: Floating Voltage (Maintenance Charge):** Once the battery is fully charged, the charger automatically switches to a lower floating voltage (13.5V to 13.8V). This stage maintains the battery at full charge without overcharging, making it safe for long-term connection.

LED Indicator Status:

- **RED LED:** Indicates the battery is currently charging.
- **GREEN LED:** Indicates the battery is fully charged and the charger is in maintenance (float) mode.

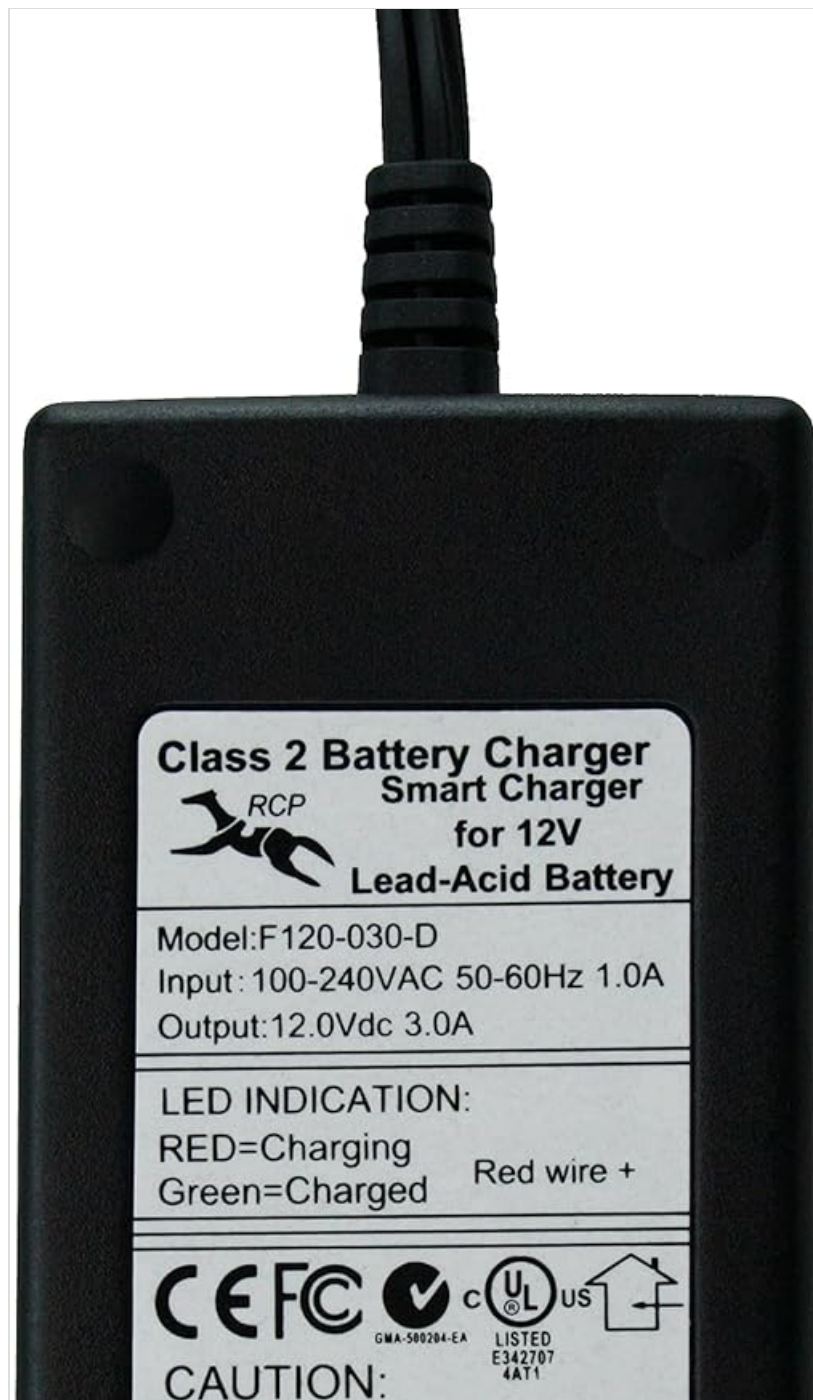




Image: The charger's bottom label, clearly showing the LED indications for charging (RED) and fully charged (GREEN).

Maintenance

- **Cleaning:** Disconnect the charger from both the AC outlet and the battery before cleaning. Wipe the charger's exterior with a dry, soft cloth. Do not use harsh chemicals or abrasives.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are not kinked or damaged.
- **Cable Inspection:** Periodically inspect the charger cables and clips for any signs of wear, cuts, or damage. Do not use if damaged.

Troubleshooting

- **Charger Not Turning On / No LED Indication:**
 - Ensure the AC power cord is securely plugged into a live outlet.
 - Verify that the battery clips are correctly and securely connected to the battery terminals (Red to positive, Black to negative).
 - Check if the battery voltage is extremely low (below 8V for a 12V battery), as some chargers may not initiate charging.
- **RED LED Stays On Indefinitely:**
 - The battery may be deeply discharged or damaged. Allow more time for charging. If it remains red after an extended period (e.g., 24 hours), the battery might be faulty and unable to hold a charge.

- Ensure the battery capacity is within the charger's recommended range.

- **Charger Feels Warm:**

- It is normal for the charger to become warm during operation. Ensure it is in a well-ventilated area and not covered. If it becomes excessively hot or emits smoke/odor, disconnect immediately and cease use.

Warranty and Support

For warranty information or technical support regarding your Banshee Titan 3.0ah Lead-Acid Battery Smart Charger, please refer to the product packaging or contact Banshee customer service directly. Keep your purchase receipt as proof of purchase.

For further assistance, please visit the official Banshee website or contact their customer support.