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Bioenno Power BPC-1502C 14.6V 2A LiFePO4 Battery Charger User Manual

Model: BPC-1502C | Brand: Bioenno Power

IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all safety instructions before using the Bioenno Power BPC-1502C charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **For 12V LiFePO4 Batteries ONLY:** This charger is specifically designed for 12V Lithium Iron Phosphate (LiFePO4) batteries. Do not attempt to charge other battery types (e.g., lead-acid, NiMH, NiCd) as this may cause damage to the battery, charger, or personal injury.
- **Indoor Use Only:** Do not expose the charger to rain, moisture, or extreme temperatures.
- **Ventilation:** Ensure adequate ventilation around the charger during operation. Do not cover the charger.
- **Proper Connection:** Always connect the charger to the battery terminals correctly (red to positive, black to negative) before plugging the charger into an AC outlet. Reverse polarity can cause damage.
- **Disconnect Safely:** Always disconnect the AC power from the wall outlet first, then disconnect the alligator clips from the battery.
- **Supervision:** Do not leave the charger unattended for extended periods while charging.
- **Damaged Equipment:** Do not operate the charger if it has been dropped, damaged, or exposed to water. Contact Bioenno Power for assistance.
- **Children and Pets:** Keep the charger and battery out of reach of children and pets.

PRODUCT OVERVIEW

The Bioenno Power BPC-1502C is a 14.6V, 2A AC-to-DC charger specifically engineered for 12V Lithium Iron Phosphate (LiFePO4) batteries. It features a Constant Current/Constant Voltage (CC/CV) charge profile to ensure safe and efficient charging. The charger is equipped with alligator clips for direct connection to battery terminals.



This image displays the red (positive) and black (negative) alligator clips, which are used to connect the charger to the battery terminals.

SPECIFICATIONS

- **Model:** BPC-1502C
- **Input:** 110 VAC, 50-60Hz
- **Output:** 14.6VDC, 2A
- **Charge Profile:** Constant Current/Constant Voltage (CC/CV) for LiFePO4 batteries
- **Battery Compatibility:** Exclusively for 12V LiFePO4 batteries
- **Connector Type:** Alligator Clips
- **Dimensions (L x W x H):** 5.25 in. x 2.25 in. x 1.125 in. (133.35 mm x 57.15 mm x 28.57 mm)
- **Weight:** 1 lb. (0.45 kg)
- **Certifications:** CE

SETUP

Follow these steps to properly set up your Bioenno Power BPC-1502C charger:

1. **Prepare the Battery:** Ensure your 12V LiFePO4 battery is clean and its terminals are free from corrosion.
2. **Connect Alligator Clips:**
 - Connect the **RED** alligator clip to the **POSITIVE (+)** terminal of the battery.
 - Connect the **BLACK** alligator clip to the **NEGATIVE (-)** terminal of the battery.

Important: Ensure a secure connection and correct polarity. Reverse polarity can damage the battery and charger.

3. **Connect to AC Power:** Plug the charger's AC power cord into a standard 110 VAC wall outlet.

4. **Verify Connection:** The charger should begin the charging process.

OPERATING INSTRUCTIONS

Once properly set up, the Bioenno Power BPC-1502C charger will automatically begin charging your 12V LiFePO4 battery using its optimized CC/CV charging profile.

- **Charging Process:** The charger will deliver a constant current (CC) until the battery voltage reaches 14.6V, then switch to constant voltage (CV) mode to fully charge the battery.
- **Charging Time:** Charging time will vary depending on the battery's capacity and its current state of charge. A 2A charger will take approximately 5 hours to fully charge a 10Ah battery from empty (assuming 80% efficiency).
- **Completion:** Once the battery is fully charged, it is recommended to disconnect the charger.

MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your charger.

- **Cleaning:** Disconnect the charger from both AC power and the battery before cleaning. Use a dry, soft cloth to wipe the exterior. Do not use liquid cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight and moisture when not in use. Ensure the cables are not kinked or strained.
- **Inspection:** Periodically inspect the charger, cables, and alligator clips for any signs of damage, wear, or corrosion. Do not use if any damage is observed.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not operating / No charge	AC power not connected	Ensure charger is securely plugged into a live AC outlet.
	Loose battery connection	Check that alligator clips are firmly attached to battery terminals with correct polarity.
	Incorrect battery type	Confirm battery is a 12V LiFePO4 type. This charger is not compatible with other battery chemistries.
	Damaged charger or cable	Inspect charger and cables for damage. If damaged, discontinue use and contact support.
Battery not fully charging	Battery capacity too large for charger	Allow sufficient time for charging. Larger capacity batteries will take longer.
	Battery fault	If the issue persists, have the battery inspected by a qualified technician.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Bioenno Power BPC-1502C charger, please contact Bioenno Power directly through their official website or customer service channels.

Please have your model number (BPC-1502C) and purchase information available when contacting support.

