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NEXPEAK 2P-NC175

NEXPEAK 2-Pack Smart Fully Automatic 6V 12V Battery Charger Maintainer User Manual

Model: 2P-NC175

INTRODUCTION

This user manual provides detailed instructions for the safe and effective operation of your NEXPEAK Smart Fully Automatic 6V 12V Battery Charger Maintainer. This device is designed to charge, maintain, and desulfate various lead-acid batteries, ensuring optimal performance and extended lifespan for your automotive, marine, powersport, and deep-cycle batteries.

PRODUCT OVERVIEW

The NEXPEAK Smart Battery Charger is a compact 4-in-1 device functioning as a battery charger, maintainer, trickle charger, and desulfator. It features an intelligent digital LCD screen for real-time charging status and multiple safety protections.



Figure 1: Two NEXPEAK Smart Battery Chargers with their accessories. Each unit is compact, black, and features a red faceplate with a blue LCD screen displaying voltage and charging status. Included are detachable alligator clips and ring terminals for versatile connection options.

VISIBLE CHARGING WITH LCD DISPLAY

SMART VISIBLE BATTERY CHARGER,
VIEW BATTERY STATUS AT ANYTIME/ANYWHERE



Figure 2: The intelligent digital LCD screen provides real-time display of charging status, including voltage, current, and battery percentage. The device offers three modes: Standard, Repair, and Trickle, selectable via a central 'MODE' button.



Figure 3: The 7-stage charging program includes desulfurization, trickle charging, constant current charging, constant voltage charging, battery current detection, compensation charging, and floating charging for comprehensive battery care.

SETUP AND CONNECTION

Before connecting the charger, ensure the battery type is compatible (6V or 12V lead-acid, including flooded, gel, AGM, SLA, VRLA, and maintenance-free batteries). Always connect the charger to the battery before plugging it into an AC power outlet.

1. **Choose the Right Connector:** The charger comes with detachable alligator clips and ring terminals. Select the connector appropriate for your battery terminals.
2. **Connect to Battery:**
 - Connect the RED (+) clamp/terminal to the positive (+) battery terminal.
 - Connect the BLACK (-) clamp/terminal to the negative (-) battery terminal.
 - Ensure connections are secure and free from corrosion.
3. **Connect to Power:** Plug the charger's AC power cord into a standard 120V AC wall outlet. The LCD screen will illuminate, and the charger will automatically detect the battery voltage (6V or 12V).



Figure 4: Proper connection of the charger to a car battery. The charger automatically detects the battery type and initiates charging. The display shows "FULL" when charging is complete, indicating the battery is ready for use or maintenance.

The NEXPEAK charger features three primary operating modes: Standard, Repair, and Trickle. The device automatically selects the appropriate mode upon connection, but you can manually switch between them using the 'MODE' button.

- **Standard Mode:** For regular charging of discharged batteries. The charger will deliver a constant current until the battery reaches a certain voltage, then switch to constant voltage charging. Once fully charged, it will automatically cut off power.
- **Repair Mode (PULSE REPAIR):** Designed to restore old or idle batteries that have lost performance due to sulfation. This mode uses advanced pulse technology to break down sulfate crystals and improve battery capacity.

CHARGE DEAD BATTERIES DOWN TO 0.1 VOLTS, BRING DEAD BATTERIES BACK TO LIFE



RESTORE LOST PERFORMANCE



Battery Back to Life



Long Idle Time



Old Battery

Figure 5: The pulse repair function can help restore deeply discharged or sulfated batteries, bringing them back to life and extending their overall lifespan. This is particularly useful for batteries that have been idle for long periods.

- **Trickle Mode:** Ideal for long-term maintenance of batteries, such as during winter storage. In this mode, the charger will maintain the battery voltage at 13.6V, preventing overcharge and ensuring the battery remains fully charged and ready for use. The charger supports long-term connection without risk of damage.

Automatic Restart: If a power outage occurs, the charger will lock in its current mode and automatically restart into trickle charging mode or standard mode once power is restored, ensuring continuous battery care.

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Video 1: This video demonstrates the 1.75-Amp Car Battery Charger in action, showing its compact size and ease of connection for maintaining vehicle batteries. It highlights the charger's ability to keep batteries topped up for extended periods.

MAINTENANCE

To ensure the longevity and optimal performance of your NEXPEAK battery charger and the batteries it services, follow these maintenance guidelines:

- **Clean Connections:** Regularly inspect and clean battery terminals and charger connectors to remove any dirt, corrosion, or debris. Use a wire brush if necessary.
- **Store Properly:** When not in use, store the charger in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Periodically check the charging cables for any signs of damage, fraying, or exposed wires. Do not use the charger if cables are damaged.
- **Environmental Protection:** While the charger is built to withstand various conditions, it is advisable to protect it from direct rain or excessive moisture if used outdoors for extended periods, as its waterproofing is not explicitly specified for heavy exposure.

TROUBLESHOOTING

If you encounter issues with your NEXPEAK battery charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not turning on/LCD not displaying.	No power from outlet; loose connection; deeply discharged battery (below 0.1V).	Check AC outlet with another device. Ensure all connections to the battery are secure. For extremely low voltage batteries, the charger may not detect it initially; try a brief jump start or consult a professional.
"E--" or "Reverse connection" displayed.	Reverse polarity connection.	Disconnect the charger immediately. Reconnect the RED (+) clamp to the positive (+) terminal and the BLACK (-) clamp to the negative (-) terminal. The charger has reverse-connection protection.
Battery not charging or charging slowly.	Battery sulfation; incorrect mode selected; battery is too old/damaged.	Try using the "Repair" mode. Ensure the correct voltage (6V/12V) is detected. If the battery is very old or severely damaged, it may not accept a charge and might need replacement.
Charger automatically turns off prematurely.	Battery fully charged; internal safety mechanism triggered (overload, over-temperature).	If the battery is full, this is normal operation. If not, check for obstructions around the charger for proper ventilation. Ensure the battery is not short-circuited or overloaded.

SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model	2P-NC175
Input Voltage	120V AC (Standard)
Output Voltage	6V / 12V DC
Charging Current	1.75 Amp
Battery Types Supported	Lead-acid (Flooded, Gel, AGM, SLA, VRLA, Maintenance-free)
Operating Temperature	-4°F to 122°F (-20°C to 50°C)
Dimensions (per unit)	2.2 x 3.8 x 1.02 inches
Item Weight (per unit)	1.28 pounds
Cord Length	8.2 ft SAE standard cord

WARRANTY AND SUPPORT

NEXPEAK offers a **2 Year 100% SATISFACTION SERVICE** for this product. If you are not pleased with your purchase or encounter any issues, please contact NEXPEAK directly for hassle-free return and refund services. For technical support or warranty claims, refer to the contact information provided on the product packaging or the official NEXPEAK website.

