

NEXPEAK NC315, NC202

NEXPEAK NC315 15Amp and NC202 10Amp Battery Charger User Manual

MODELS: NC315, NC202

Your comprehensive guide to operating and maintaining your NEXPEAK battery chargers.

1. Introduction

This manual provides detailed instructions for the safe and efficient operation of your NEXPEAK NC315 15Amp and NC202 10Amp Battery Chargers. These intelligent pulse repair chargers are designed to charge and maintain various 12-volt and 24-volt batteries, including LiFePO4, lead-acid (AGM, GEL, SLA, Flooded) batteries found in cars, trucks, SUVs, motorcycles, lawnmowers, and marine vehicles. Please read this manual thoroughly before use and retain it for future reference.



Image 1: NEXPEAK NC315 (orange) and NC202 (red) Battery Chargers.

2. Important Safety Information

WARNING: Always follow safety precautions when working with batteries and electrical equipment. Failure to do so may result in serious injury or property damage.

- Wear eye protection and protective clothing.
- Ensure adequate ventilation during charging.
- Keep the charger away from flammable materials.
- Do not expose the charger to rain or moisture.
- Connect the charger to the battery terminals correctly (positive to positive, negative to negative). The charger includes reverse polarity protection.
- Do not attempt to charge frozen or damaged batteries.
- Keep out of reach of children.

3. Key Product Features

- **Versatile Battery Compatibility:** Charges all 12-volt and 24-volt LiFePO4 or lead-acid automotive, marine, and deep-cycle batteries, including AGM, GEL, SLA, and Flooded types.
- **High-Speed Quick Charge:** NC315 offers 12V 15-Amp and 24V 8-Amp charging. NC202 offers 12V 10-Amp and 24V 5-Amp charging.
- **Upgraded 1.75Amp Battery Trickle Charger:** Features a 9-stage charging process to extend battery cycle time and automatically enters trickle/float charging mode after full charge.
- **Bright LCD Color Screen:** Displays charging and battery status, including charge voltage and current, internal temperature (°F), charge percentage, summer mode, and winter mode.
- **Overall Charging Protections:** Smart control with temperature compensation, reverse protection, cooling system, overcurrent, fireproof material, overcharge, and short circuit protection.
- **High-Efficiency Pulse Repair:** Automatically detects battery sulfation and acid stratification, using pulse repair to restore lost battery performance. Note: Cannot activate or charge totally dead batteries.

4. Setup

1. **Connect to Battery:** Attach the red (+) clamp to the positive battery terminal and the black (-) clamp to the negative battery terminal. Ensure a secure connection.
2. **Connect to Power:** Plug the charger's AC input cable into a standard 100-240 volt wall outlet.
3. **Select Charging Mode:** The charger will automatically detect the battery voltage (12V or 24V). Press the 'MODE' button to cycle through the available charging modes (Car/Boat, AGM/LiFePO4, Moto, Repair) to select the appropriate mode for your battery type.

12V/15A, 24V/8A HIGH SPEED QUICK CHARGE

50% FASTER COMPARED TO 12V/8A BATTERY CHARGER
SAVE YOUR CHARGING TIME



Quick battery charger



Battery maintainer



Provides stronger engine starts
and extended battery life

Image 2: NEXPEAK NC315 connected to a lead-acid battery for charging.

5. Operating Instructions

Once connected and the mode is selected, the charger will begin its intelligent multi-stage charging process. The LCD screen will display real-time information.

5.1. Understanding Charging Modes

- **Car/Boat Mode:** Suitable for standard 12V/24V lead-acid batteries in cars, boats, and other vehicles.
- **AGM/LiFePO4 Mode:** Optimized for AGM and LiFePO4 batteries.
- **Moto Mode:** Designed for 12V/24V motorcycle batteries and small capacity lead-acid batteries.
- **Repair Mode:** Utilizes pulse technology to detect and reverse battery sulfation and acid stratification, aiming to restore lost battery performance. This mode is typically a longer process.

ULTRA CLEAR LARGE COLOR SCREEN

VISIBALE CHARGING WITH CHARGING CURRENT, VOLTAGE, TEMP (°F), ETC.



EASY STORAGE



Brighter Screen



***5A FIREPROOF**

5 MODES
SELECTION



Lead-acid/LiFePO4



Pulse Repair



Summer Mode



Trickle Charger

Image 3: The NC315 charger's display showing various mode selections.

5.2. Temperature Compensation (Summer/Winter Mode)

The charger automatically detects the ambient temperature and adjusts the charging voltage accordingly. This ensures optimal charging performance and battery longevity in both hot (Summer Mode) and cold (Winter Mode) climates.



Image 4: The NC202 charger's temperature compensation feature, showing automatic adjustment for summer and winter conditions.

5.3. Charging Process (NC315 - 9-Stage, NC202 - 8-Stage)

The chargers employ a multi-stage charging process to ensure thorough and safe charging. The NC315 features a 9-stage process, while the NC202 uses an 8-stage process. These stages typically include desulfation, soft start, bulk charge, absorption, battery analysis, recondition, float charge, and smart monitoring.

9-STAGE SMART CHARGING

FAST CHARGE WHIOUT REDUCE BATTERY CYCLE LIFE



Image 5: Diagram of the NC315's 9-stage smart charging process.



Image 6: Diagram of the NC202's 8-stage smart charging process.

5.4. Official Product Video

Video 1: Quick Battery Charger - An overview of the NEXPEAK charger's features and operation.

6. Maintenance

- **Cleaning:** Disconnect the charger from power and the battery before cleaning. Wipe the exterior with a soft, damp cloth. Do not use harsh chemicals or abrasives.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are neatly wrapped to prevent damage.
- **Battery Care:** Regularly check battery fluid levels (for flooded batteries) and keep terminals clean and free of corrosion.

7. Troubleshooting

- **Charger Not Turning On:** Ensure the AC power cable is securely plugged into a working outlet. Check for any damage to the cable or charger.

- **No Charge Indication:** Verify that the battery clamps are correctly connected to the battery terminals (red to positive, black to negative). Ensure the battery is not completely dead, as the pulse repair function may not revive severely depleted batteries.
- **Error Message on Screen:** Refer to the specific error code displayed on the LCD screen. Consult the full user manual for detailed explanations and solutions for each code.
- **Slow Charging:** Ensure the correct charging mode is selected for your battery type. Check the battery's health; older or damaged batteries may charge slower or not hold a charge effectively.

8. Specifications

- **Model:** NC315 (15Amp), NC202 (10Amp)
- **Input Voltage:** 100-240V AC
- **Output Voltage:** 12V / 24V DC (Auto-detection)
- **Charging Current (NC315):** 12V 15A, 24V 8A
- **Charging Current (NC202):** 12V 10A, 24V 5A
- **Trickle Charge Current:** 1.75A
- **Battery Types:** LiFePO4, Lead-Acid (AGM, GEL, SLA, Flooded)
- **Charging Stages:** NC315 (9-stage), NC202 (8-stage)
- **Display:** Large LCD Color Screen
- **Protections:** Temperature compensation, reverse polarity, overcurrent, overcharge, short circuit, fireproof material.

9. Warranty and Support

NEXPEAK products are designed for reliability and performance. For any quality issues, a new replacement is available. For detailed warranty information, technical support, or customer service inquiries, please refer to the contact information provided in your product packaging or visit the official NEXPEAK website.

For more information, visit the [NEXPEAK Store](#).