

Overview

The NEXPEAK 10-Amp Car Battery Charger is a smart, fully automatic charger and maintainer designed for 12V and 24V lead-acid batteries. It features a 7-stage charging process, temperature compensation, and a pulse repair function.



Features & Specifications

Key Features

- **10-Amp Quick Charging:** 12V 10-Amp and 24V 5-Amp output for faster charging than lower-ampere chargers.
- **7-Stage Smart Charging:** Fully automatic charging cycle for optimal battery health.
- **Universal Compatibility:** Charges and maintains 12V and 24V lead-acid batteries, including AGM, GEL, SLA, and Flooded types.
- **Pulse Repair Function:** Helps restore battery performance by reducing sulfation.
- **Large LCD Display:** Shows charging status, voltage, current, temperature, and charge percentage.

- **Trickle Charge/Maintainer Mode:** Maintains battery charge over extended periods of inactivity.
- **Temperature Compensation:** Adjusts charging parameters based on ambient temperature.
- **Multiple Protections:** Includes protection against reverse polarity, overcurrent, overcharge, short circuits, and uses fireproof materials.
- **Built-in Cooling Fan:** Ensures the unit stays cool during prolonged use.

Technical Specifications

- **AC Input:** 100-240V, 50/60Hz
- **DC Output:** 12V/10A, 24V/5A (Auto-detecting)
- **Max Input Power:** 130W
- **Product Dimensions:** 3.8"D x 7.6"W x 1.3"H
- **Item Weight:** 1.3 Pounds
- **Cooling:** Fan
- **Compliance:** UL Listed



Package Contents

- 1 x NEXPEAK 10-Amp Car Battery Charger
- 1 x User Manual

Use Guide

Safety Instructions

WARNING:

- Read all instructions before use.
- This charger is for lead-acid batteries only. **Do not use with lithium-ion batteries.**
- Ensure the area is well-ventilated during charging.
- Connect and disconnect clamps in the correct order to avoid sparks.
- Do not charge a frozen battery.
- Keep away from children.

Charger Controls & Display

The charger features a large LCD screen that displays real-time information:

- **Charge Status:** Indicates the current charging stage (e.g., bulk, absorption, float).
- **Voltage & Current:** Shows output voltage (V) and current (A).
- **Battery Percentage:** Displays estimated charge level.
- **Temperature:** Shows internal temperature.
- **Mode Indicators:** Shows active mode (e.g., STD, AGM, WET, MOTORCYCLE).

Connection Procedure

1. **Prepare the Battery:** Turn off the vehicle and all electrical loads. If possible, disconnect the battery from the vehicle, starting with the negative (-) terminal.
2. **Clean Battery Terminals:** Ensure terminals are clean and free of corrosion.
3. **Connect the Charger Clamps:**
 - Connect the RED clamp to the POSITIVE (+) battery terminal.
 - Connect the BLACK clamp to the NEGATIVE (-) battery terminal or a clean, unpainted metal part of the chassis (ground).
4. **Select Charging Mode:** Press the mode button to select the appropriate setting for your battery type:
 - **STD/AGM:** For standard or AGM batteries.
 - **GEL:** For gel cell batteries.
 - **WET:** For flooded lead-acid batteries.
 - **MOTORCYCLE:** For smaller batteries and for entering trickle/maintenance mode.

5. **Plug into AC Outlet:** Plug the charger's power cord into a standard 100-240V AC wall outlet. The charger will automatically begin its diagnostic and charging cycle.

Using Trickle Charge / Maintainer Mode

To maintain a battery over long periods (e.g., winter storage):

1. First, fully charge the battery using the appropriate mode (STD, AGM, etc.) until the display shows "FUL".
2. Switch the mode to "MOTORCYCLE". The charger will automatically enter a float/trickle charge mode, providing a low current to maintain the battery's full charge.

Pulse Repair Function

The charger automatically detects sulfation during the charging process and applies a pulse repair function. For best results, allow the charger to complete a full cycle on a depleted battery.

NOTE: This charger cannot activate or charge a completely dead (zero voltage) battery.

Troubleshooting

- **Charger does not turn on:** Check AC power connection. Ensure clamps are firmly connected to correct battery terminals.
- **Display shows an error or no reading:** Verify battery voltage is above 3V. Check for poor clamp connections or corroded terminals.
- **Charger stops prematurely or fan runs loudly:** This may be normal due to temperature protection. Ensure the charger is in a well-ventilated area.
- **Battery does not hold charge after using repair function:** The battery may be damaged beyond recovery and require replacement.

Warranty and Support

This product is backed by a **2-year limited warranty**. A new replacement is available for any quality issue within this period.

Manufacturer: NEXPEAK

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

