

## NOCO GENIUSPRO25

# NOCO GENIUSPRO25: Professional 25A 6V/12V/24V Smart Battery Charger Instruction Manual

Brand: NOCO | Model: GENIUSPRO25

## 1. INTRODUCTION

The NOCO GENIUSPRO25 is a professional-grade smart battery charger, maintainer, desulfator, and power supply. It offers advanced power, performance, and versatility, serving as an evolution of previous models. This multi-voltage charger supports 6V (25A), 12V (25A), and 24V (12.5A) charging for a wide range of battery types, including lead-acid (AGM, gel, SLA, VRLA) and lithium-ion (LiFePO4) batteries. Its robust design and intelligent features ensure optimal battery health and longevity across various applications.



Image: The NOCO GENIUSPRO25 charger compared to an older model, emphasizing its increased power and performance.

Your browser does not support the video tag.

Video: An overview of the NOCO GENIUSPRO Chargers, showcasing their features and capabilities.

## 2. WHAT'S IN THE BOX

The NOCO GENIUSPRO25 package includes the following items:

- GENIUSPRO25 6V, 12V, and 24V Battery Charger, Maintainer, Trickle Charger, Power Supply, and Battery Desulfator (120-240VAC)
- Pro X-Connect Battery Clamps with Integrated 3/8-Inch (M10) Eyelets
- Pro X-Connect 10-Foot (3M) Extension Cable
- Four 6-foot AC cables (Type-B US, Type-I AU, Type-G UK, and Type-E EU)
- Portable EVA Storage Case
- Two Mounting Screws
- User Guide
- 3-Year Warranty Information



Image: A visual representation of all items included in the NOCO GENIUSPRO25 package.

### 3. KEY FEATURES

- **Multi-Voltage Charging:** Supports 6V (25A), 12V (25A), and 24V (12.5A) for various battery types.

- **Battery Compatibility:** Charges lead-acid (AGM, Gel, SLA, VRLA) and lithium (LiFePO4) batteries, including maintenance-free, deep-cycle, and marine batteries.
- **Professional-Grade Design:** Features ultra-flexible silicone cables rated to -40°C and tough nylon-braided shielding for durability.
- **Power Supply Mode:** Dual-voltage power supply (12V 25A, 24V 12.5A) for ripple-free power during ECU flashing, reprogramming, and diagnostic testing.
- **Thermal Compensation:** Integrated sensor adjusts charging based on ambient temperature to prevent over/undercharging.
- **Dead Battery Charging:** Can charge batteries as low as 1 volt, with a Force Mode for completely dead batteries (down to zero volts).
- **Battery Restoration:** Precision pulse charging reverses sulfation and acid stratification, with advanced repair modes for 6V, 12V, and 24V batteries.



Image: The NOCO GENIUSPRO25 demonstrating its multi-voltage charging capabilities for various battery types and chemistries.

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Video: A detailed look at the NOCO GENIUSPRO25, showcasing its features as a professional battery maintainer and charger.

## 4. SETUP

1. **Connect Battery Clamps:** Attach the red positive (+) clamp to the positive battery terminal and the black negative (-) clamp to the negative battery terminal. Ensure a secure connection.
2. **Select AC Cable:** Choose the appropriate 6-foot AC cable for your region (US, UK, EU, or AU) and connect it to the charger.
3. **Plug into Power:** Plug the AC cable into a suitable electrical outlet. The charger will power on and begin its diagnostic process.
4. **Select Charging Mode:** Press the 'MODE' button to cycle through the available charging modes (e.g., 12V STD, 12V AGM, 12V Lithium, 6V, 24V). The charger will automatically detect the battery type and voltage, but manual selection is possible.



# CHARGE DEAD BATTERIES. DOWN TO ZERO VOLTS.



**START VOLTAGE.**  
Detects batteries  
down to 1-volt.

**FORCE MODE.™**  
Manually begin charging  
batteries below 1-volt.

Image: Demonstrating the connection of the NOCO GENIUSPRO25 to a car battery, highlighting the Force Mode for dead batteries.

## 5. OPERATING MODES

The GENIUSPRO25 offers several operating modes to suit different battery types and charging needs:

- **6V Mode:** For 6-volt lead-acid batteries.
- **12V Mode:** For 12-volt lead-acid batteries (wet cell, gel, enhanced flooded, maintenance-free, calcium).
- **24V Mode:** For 24-volt lead-acid batteries.
- **AGM Mode:** Optimized for 6V, 12V, or 24V AGM batteries.
- **Lithium Mode:** Specifically for 6V, 12V, or 24V Lithium-Ion (LiFePO4) batteries with Battery Management Systems (BMS).
- **Force Mode:** Used to manually initiate charging for batteries below 1-volt. Hold the mode button for 5 seconds to activate.
- **Repair Mode:** Advanced modes for 6V, 12V, and 24V batteries to restore old, idle, damaged, or sulfated batteries.
- **5A Charge:** Allows the unit to operate at a lower charge current for smaller batteries or for maintenance.

- **Power Supply Mode:** Converts to a DC power supply for powering 12V or 24V DC devices, or as a memory retainer when replacing a battery.



Image: An illustration of the advanced charging modes available on the NOCO GENIUSPRO25.

Your browser does not support the video tag.

Video: A demonstration of the smart battery charger, maintainer, desulfator, and power supply features of the NOCO GENIUSPRO25.

## 6. THERMAL COMPENSATION

The GENIUSPRO25 features an integrated thermal sensor that dynamically adjusts the charge based on the ambient temperature. This intelligent feature prevents overcharging in hot climates and undercharging in cold climates, ensuring optimal battery performance and extending battery life.

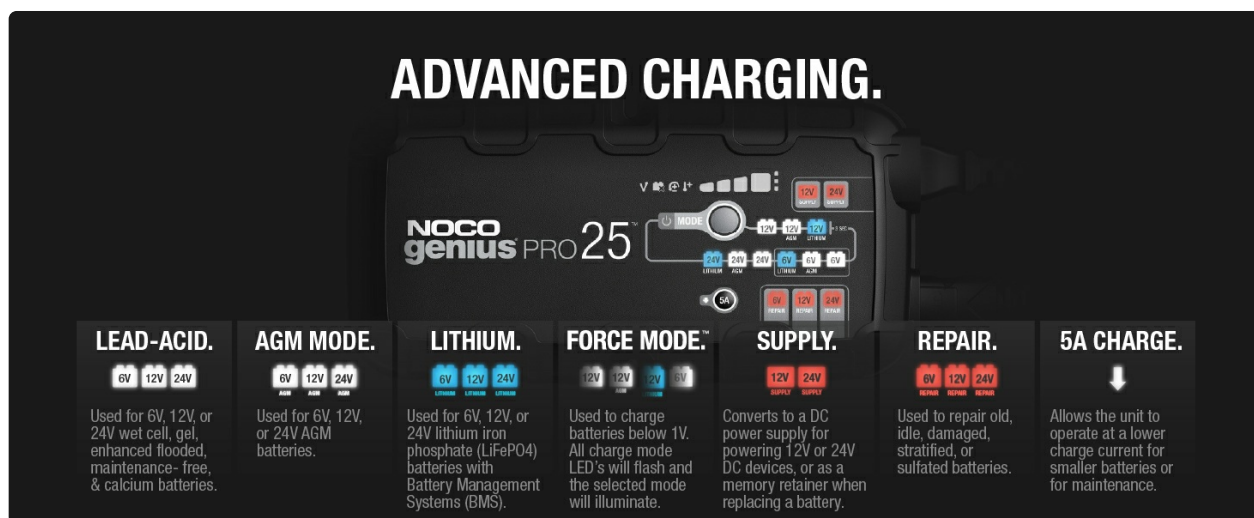


Image: Visual explanation of the thermal compensation feature, optimizing charging for various temperatures.

## 7. CHARGING DEAD BATTERIES (FORCE MODE)

The GENIUSPRO25 can charge batteries with as little as 1 volt. For completely dead batteries (down to zero volts), use the Force Mode. To activate Force Mode, connect the charger to the battery, then press and hold the 'MODE' button for 5 seconds until the appropriate battery type LED blinks. The charger will then force a charge into the battery for 5 minutes before reverting to normal charging mode.



Image: A visual guide to using Force Mode for charging deeply discharged batteries.

Your browser does not support the video tag.

Video: A user demonstrating the NOCO GENIUSPRO25's ability to charge a battery, highlighting its ease of use.

## 8. MAINTENANCE

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The GENIUSPRO25 employs precision pulse charging to reverse sulfation and acid stratification, which helps improve battery performance and extend its lifespan. Regular use of the charger's maintenance and repair modes can keep your batteries in optimal condition.

# BATTERIES BACK TO LIFE. RESTORES LOST PERFORMANCE.



## AUTO DETECTION.

Automatic sulfation and acid stratification detection.

## AUTO REPAIR.

Automatically repairs and reverses battery damage.

## PERFORMANCE.

Provides stronger engine starts and extends battery life.

Image: The NOCO GENIUSPRO25 restoring a battery, detailing its auto-detection and auto-repair capabilities.

## 9. TROUBLESHOOTING

If you encounter any issues with your GENIUSPRO25, please refer to the detailed user guide included in the box. The guide provides comprehensive information on LED indicators, error codes, and solutions for common problems. Ensure all connections are secure and the correct charging mode is selected for your battery type.

Your browser does not support the video tag.

Video: A user demonstrating the NOCO GENIUSPRO25, noting its features and potential issues, which can be resolved by consulting the manual.

## 10. SPECIFICATIONS

Feature	Specification
Model	GENIUSPRO25
Amperage	25 Amps

Feature	Specification
Output Voltage	6V, 12V, 24V
Item Weight	7.98 pounds
Product Dimensions	14.65 x 8.74 x 6.74 inches
Special Features	Battery Maintainer, Trickle Charger, Power Supply, Battery Desulfator, Force Mode, IP44 Ingress Protection, Spark-Proof, Reverse Polarity Protection, Temperature Compensation

## 11. WARRANTY & SUPPORT

The NOCO GENIUSPRO25 comes with a **3-year hassle-free warranty**. For warranty claims or technical support, please refer to the contact information provided in your user guide or visit the official NOCO website. Keep your proof of purchase for warranty validation.