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## NOCO G10JP

# NOCO Genius10 6V/12V 10A Battery Charger Instruction Manual

**MODEL: G10JP**

Brand: NOCO

## 1. INTRODUCTION

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The NOCO Genius10 is an advanced, multi-purpose 6V and 12V battery charger designed for a wide range of battery types and applications. It features a maximum output of 10 Amperes and includes a power supply mode. This charger automatically adjusts the charging current based on the battery's condition and is compatible with various battery chemistries, including flooded, EFB, AGM, and lithium-ion. It also incorporates repair and force modes for enhanced battery maintenance. This product is PSE certified for the Japanese market, ensuring safety and compliance.



Figure 1: Front view of the NOCO Genius10 battery charger, showcasing its compact design and user interface.

## 2. SAFETY INFORMATION

Always read and understand the entire instruction manual before using the product. Failure to follow safety instructions could result in electric shock, explosion, fire, which could result in serious injury, death, or property damage.

- **Electrical Safety:** Ensure the charger is connected to a properly grounded outlet. Do not expose the charger to rain or wet conditions.
- **Battery Handling:** Wear eye protection and gloves when working with batteries. Ensure adequate ventilation during charging.
- **Explosive Gases:** Batteries generate explosive gases during normal operation. Avoid flames and sparks near the battery.
- **Connection Order:** Always connect the positive (+) clamp to the positive battery terminal first, then the negative (-) clamp to the negative battery terminal or chassis ground. Disconnect in reverse order.
- **Damaged Equipment:** Do not operate the charger if it has been damaged in any way.

## 3. PRODUCT FEATURES

- **Multi-Voltage Compatibility:** Supports 6V and 12V batteries.
- **High Charging Current:** Delivers up to 10 Amperes for efficient charging.
- **Automatic Current Adjustment (Ampmatic):** The charger automatically adjusts the charging current based on the battery size and condition, from small scooter batteries (3Ah) to large car batteries (144Ah).
- **Wide Battery Type Support:** Compatible with flooded, EFB, AGM, Gel, Calcium, and Lithium-ion (LiFePO4)

batteries.

- **Repair Mode:** Advanced mode for recovering new or damaged batteries, detecting and reversing sulfation and acid stratification.
- **Force Mode:** Allows manual initiation of charging for deeply discharged batteries below 1V, even down to zero volts.
- **Power Supply Mode:** Converts the charger into a 10-amp power supply, useful for maintaining battery charge during vehicle display or service.
- **Thermal Compensation:** Optimizes charging performance across a wide temperature range, from -40°C to +70°C, preventing over-charging in hot weather and under-charging in cold weather.
- **Fully Automatic Operation:** Provides year-round, all-weather charging with zero overcharge risk. Can be left plugged in 24/7.
- **Auto Memory:** Automatically returns to its last selected mode after power interruption.
- **PSE Certified:** Complies with Japanese electrical product safety standards.

# EVERYTHING CHARGER. DO MORE WITH GENIUS.

## MULTI-VOLTAGE.

6-volt and 12-volt lead-acid and lithium-ion batteries.

## CHEMISTRIES.

Flooded, gel, maintenance-free and AGM batteries.

## TYPES.

Starter, deep-cycle, marine, powersport and more.



## REPAIR MODE.

Advanced repair mode for new or damaged batteries.

## SUPPLY MODE.

Convert to a 10-amp power supply.

Universal Input:  
120-240VAC, 50-60Hz

Figure 2: An illustration of the NOCO Genius10's versatility, showing its compatibility with multi-voltage (6V/12V) and various battery chemistries (flooded, gel, maintenance-free, AGM, lithium-ion). It also highlights Repair Mode and Supply Mode.

## 4. SETUP

Before connecting the charger, ensure the vehicle is turned off and in a well-ventilated area. Identify the battery terminals.

### 4.1 Connecting to the Battery

1. **Connect the Charger to the Battery:** Attach the red positive (+) clamp to the positive battery terminal. Attach the black negative (-) clamp to the negative battery terminal or a chassis ground point away from the battery.
2. **Connect to Power Outlet:** Plug the charger's AC power cord into a suitable electrical outlet. The charger will automatically detect the battery voltage and begin the charging process.



Figure 3: The NOCO Genius10 charger connected to a car battery, demonstrating its ability to charge deeply discharged batteries, even down to zero volts, using its Start Voltage and Force Mode features.

## 5. OPERATING INSTRUCTIONS

The NOCO Genius10 operates automatically, but you can select specific modes for different battery conditions.

## 5.1 Automatic Charging

- Once connected to a battery and power, the charger will automatically begin charging.
- The LED indicators will show the charging progress and battery status. A blue LED indicates a healthy battery and charging in progress.
- The charger will transition through various stages (Connect, Save, Charge, Optimize, Maintain) to ensure optimal battery health.

## 5.2 Special Modes

- **Repair Mode:** For heavily sulfated or damaged batteries. Consult the full manual for activation.
- **Force Mode:** To initiate charging on batteries below 1V. This mode bypasses safety features and should be used with caution.
- **Power Supply Mode:** Provides a constant 10A output. Useful for maintaining vehicle systems during battery changes or diagnostics.

# COMPLETELY AUTOMATIC. WORRY-FREE BATTERY CHARGING.



## YEAR-ROUND CHARGING.

Provides all-season, all-weather, charging for a healthy battery.

## ZERO OVERCHARGE.

Leave plugged in 24/7 with no worries of overcharging.

## AUTO MEMORY.

Automatically returns to its last selected mode.

Figure 4: The NOCO Genius10 connected to a battery, showing its fully automatic operation with features like year-round charging, zero overcharge protection, and auto-memory for selected modes.

## 6. MAINTENANCE

The NOCO Genius10 is designed for continuous maintenance charging, ensuring your battery remains in optimal condition.

- **Long-Term Connection:** The charger can be left connected to the battery indefinitely. It will automatically monitor the battery and provide a maintenance charge as needed, preventing overcharging.
- **Battery Health Monitoring:** The charger continuously checks the battery's state of health. Green LEDs indicate a good battery, yellow indicates slight degradation, and red indicates significant wear, suggesting replacement.
- **Cleaning:** Keep the charger and its connectors clean and free of dirt or corrosion.



# 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 extended battery life.

Figure 5: A cutaway view of a battery being restored by the NOCO Genius10, emphasizing its auto-detection for sulfation and acid stratification, auto-repair capabilities, and overall performance improvement for stronger engine starts and extended battery life.

## 7. TROUBLESHOOTING

If you encounter issues with your NOCO Genius10, refer to the following common troubleshooting steps:

- **Charger Not Turning On:** Ensure the AC power cord is securely plugged into a live outlet. Check for tripped circuit breakers.
- **Red LED Indicator:** A red LED often indicates a poor connection to the battery. Disconnect and reconnect the clamps, ensuring they are firmly attached to the correct terminals.
- **Charging Not Starting:** If the battery voltage is extremely low (below 1V), the charger may not detect it automatically. Use Force Mode (refer to the full manual for instructions) to initiate charging.
- **Overcharge Protection:** The charger is designed with zero overcharge protection. If the battery is fully charged, it will enter maintenance mode, indicated by green, yellow, or red LEDs depending on battery health.

## 8. SPECIFICATIONS

<b>Manufacturer</b>	NOCO
<b>Brand</b>	NOCO
<b>Model Name</b>	G10JP
<b>Product Dimensions</b>	20.8 x 9.4 x 6 cm
<b>Item Model Number</b>	G10JP
<b>Special Features</b>	Charging Current: 10A, Input Voltage: 100V-120V, 50/60Hz, Output Power: 150W (Max) / Back Current Drain: < 0.5mA, Operating Ambient Temperature: -20°C ~ +40°C   Waterproof/Dustproof Performance: IP65, Minimum Detection Voltage: ~ 1V
<b>Color</b>	Black
<b>Certification</b>	1-year manufacturer's warranty
<b>Item Weight</b>	1.84 Kilograms
<b>Output Voltage</b>	12 Volts

## 9. WARRANTY AND SUPPORT

The NOCO Genius10 G10JP comes with a 1-year manufacturer's warranty. For technical support, troubleshooting assistance, or warranty claims, please contact NOCO customer service through their official website or the retailer where the product was purchased. Please have your model number (G10JP) and proof of purchase ready when contacting support.