

## LVYUAN DC200PLUS

# LVYUAN Automatic Pulse Battery Charger DC200PLUS Instruction Manual

Model: DC200PLUS

## 1. INTRODUCTION

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Thank you for purchasing the LVYUAN Automatic Pulse Battery Charger DC200PLUS. This charger is designed for 12V and 24V lead-acid batteries, including open-type, sealed-type, and AGM/GEL batteries. It features automatic charging, pulse charging, trickle charging, and battery diagnosis functions, ensuring efficient and safe battery maintenance. Please read this manual thoroughly before use to ensure proper operation and safety.

## 2. SAFETY INFORMATION

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- **Do not use for lithium batteries.** This charger is specifically designed for lead-acid batteries.
- Ensure proper ventilation during charging.
- Avoid sparks or flames near the battery during charging.
- Wear eye protection and gloves when handling batteries.
- Keep out of reach of children.
- The charger is equipped with multiple protection functions including short circuit protection, reverse connection protection, overheat protection, undervoltage protection, overvoltage protection, overcharge protection, and leakage prevention.
- If the charging clips are connected in reverse, an error will be displayed.
- Before using the repair mode, always remove the battery from the vehicle to prevent current flow to the vehicle's wiring.

## 3. PRODUCT OVERVIEW

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The LVYUAN DC200PLUS is an intelligent battery charger that automatically detects battery type and condition, then selects the optimal charging method. It features a clear digital LCD display for monitoring charging status, current, voltage, and battery percentage. A built-in cooling fan helps regulate temperature during operation.

## 簡単充電接続方法



**1、充電コードをバッテリーにつなぐ**  
バッテリー充電器の赤のコードをバッテリーの+端子に、黒のコードを-端子につなぎます。



**2、充電器の電源を入れる**  
バッテリー充電器のグラフをコンセントに押し込み、電源を入れます。



**3、ディスプレイ表示**  
点滅状態でスタート状態となります。



**4、バッテリー容量に応じ最適な電流選択**  
間違った選択をした場合は、スタートボタンを2回押すか、電源を切って再度電流を選択してください。



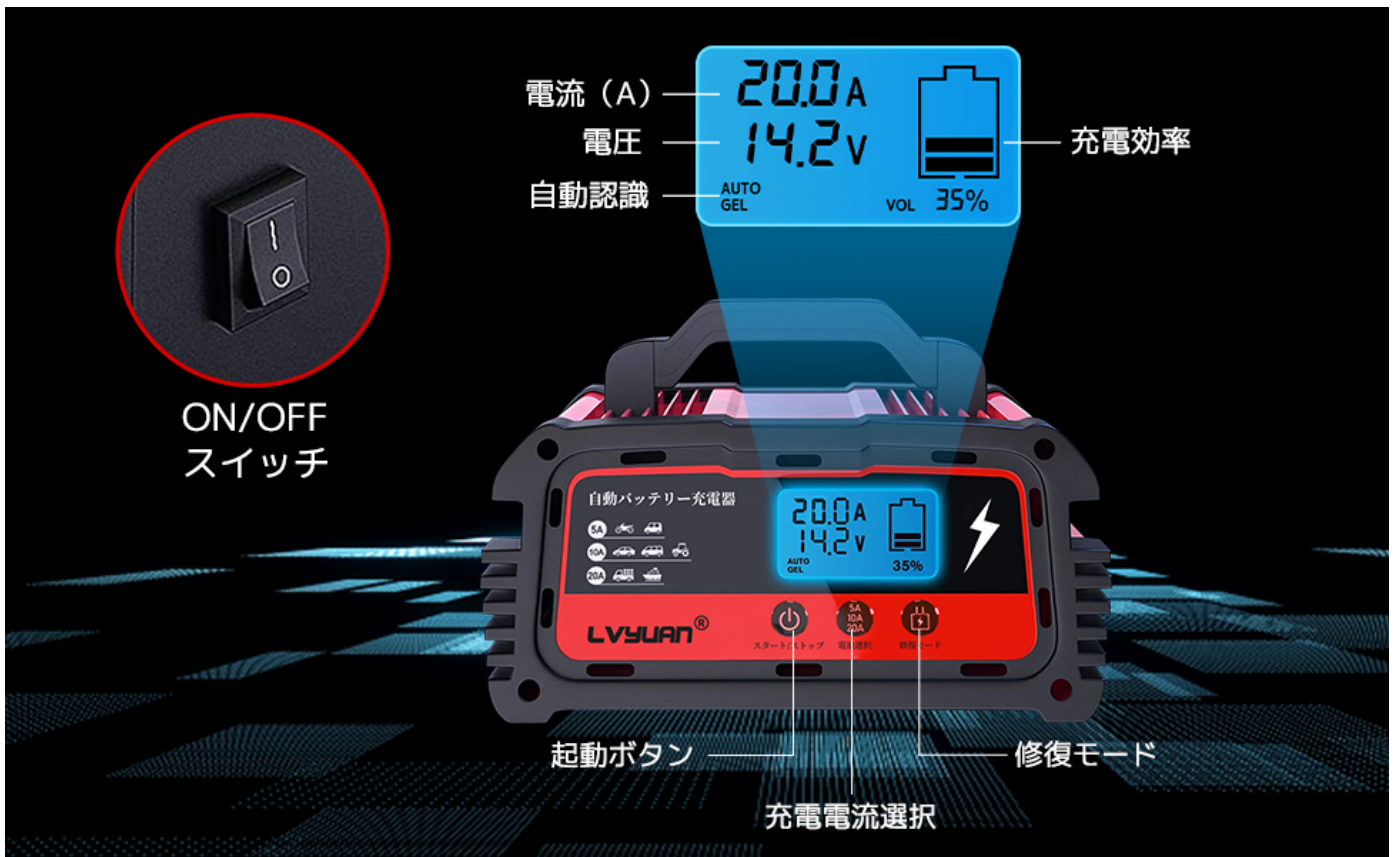
**5、バッテリー電流の選択**  
容量に応じた電流の選択を行います。(AGM/GEL方式から選択可)



**6、修復モードで確認**  
長押し（5秒）すると雪の結晶イラストが表示され、パルス充電を開始します。※充電途中からの変更はできませんのでご注意ください。

**パルス式充電**とは、長時間時放電状態だったバッテリーや購入から5年以上経ったバッテリー内部に発生するサルフェーション（負極表面に硫酸鉛が結晶化して付着する現象）を除去し、バッテリー寿命を延ばす効果やバッテリー性能や蓄電容量が著しく低下する現象を指します。

The digital display provides real-time information on charging status, current, voltage, and battery type.



The charger includes a cooling fan for temperature regulation and various safety features.

## 4. SETUP

- 1. Connect Battery Clips:** Connect the red charging clip to the positive (+) terminal of the battery and the black charging clip to the negative (-) terminal. Ensure a secure connection.

2. **Plug into AC Outlet:** Insert the charger's power plug into a standard AC100V electrical outlet.
3. **Turn On Power:** Locate the power switch on the back of the charger and turn it to the 'ON' position. The display will light up, indicating the charger is ready.



Follow these steps for a simple and safe charging connection.

Your browser does not support the video tag.

Official product video demonstrating the LUYUAN DC200PLUS Automatic Pulse Battery Charger in use, showing connection, mode selection, and charging process.

## 5. OPERATING INSTRUCTIONS

### 5.1 Automatic Charging

The charger automatically detects the battery's voltage (12V or 24V) and condition. It then selects the most appropriate charging current and method.



The charger automatically selects the optimal charging method for your battery.

### 5.2 Current Selection

For 12V batteries, you can select charging currents of 5A, 10A, or 20A. For 24V batteries, you can select 5A or 10A. Press the 'Current Selection' button to cycle through the available options. Once charging begins, the current cannot be changed. If an incorrect current is selected, turn off the power and restart the selection process.



Select from 5A, 10A, or 20A charging currents depending on your battery's capacity.

### 5.3 Start/Stop Charging

Press the 'Start/Stop' button to begin or pause the charging process. The charger will automatically stop when the battery

reaches a full charge state. If the battery voltage drops below a certain threshold due to self-discharge, the charger will automatically resume charging.

#### 5.4 Repair Mode (Pulse Charging)

The repair mode is designed to revitalize degraded lead-acid batteries by removing sulfation. This mode is only effective for 12V lead-acid batteries; it cannot repair 24V batteries.

- **Activation:** Long-press the 'Repair Mode' button for 5 seconds to activate.
- **Important:** Before activating repair mode, always disconnect the battery from the vehicle. Failure to do so may result in current flowing through the vehicle's wiring, preventing effective repair.
- Repair mode runs for 24 hours. If the battery is not repaired after 24 hours, restart the charger and repeat the repair mode.
- Monitor battery temperature during repair mode. If the temperature becomes too high, pause the repair process.



The repair mode can help restore degraded lead-acid batteries.

## 6. MAINTENANCE

- Keep the charger clean and dry.
- Regularly check the charging clips and cables for any damage.
- Store the charger in a cool, dry place when not in use.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not turning on	No power from AC outlet, power switch off	Check AC outlet, ensure power switch is ON

Problem	Possible Cause	Solution
Error displayed (e.g., reverse connection)	Incorrect battery connection	Disconnect clips and reconnect correctly (red to +, black to -)
Battery not charging	Battery is faulty or too degraded (0V battery)	If battery is 0V, try repair mode after disconnecting from vehicle. If still not charging, battery may be beyond repair.
Repair mode ineffective	Battery too degraded, or not disconnected from vehicle	Ensure battery is removed from vehicle. Repeat repair mode if necessary. Battery may be beyond repair.
Charger overheats	Poor ventilation, prolonged use in high temperatures	Ensure adequate ventilation. Pause charging if necessary.

## 8. SPECIFICATIONS

Feature	Specification
Brand	LVYUAN
Model	DC200PLUS
Input Voltage	AC100V
Output Current	20A (max during charging)
Compatible Batteries	DC12V/DC24V Lead-Acid (Open, Sealed, AGM, GEL)
Compatible Battery Capacity	20Ah ~ 200Ah
12V Output Voltage/Current	DC12V/20A (max current), 14.4V (STANDARD)/14.8V (AGM)
24V Output Voltage/Current	24V/10A (max current), 28.8V (STANDARD)/29.6V (AGM)
Charging Current Selection	12V: 5A, 10A, 20A; 24V: 5A, 10A
Charging Functions	Automatic, Pulse, Trickle (Maintenance), Battery Diagnosis
Protection Functions	Reverse connection, Faulty battery, Voltage confirmation, Overcurrent, High temperature, Time over, Short circuit, Undervoltage, Overvoltage, Overcharge, Leakage prevention
Dimensions (D x W x H)	12 x 16 x 5 cm
Weight	1.6 kg
UPC	782905972315

## 9. WARRANTY AND SUPPORT

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This product comes with a **6 Month Warranty Against Manufacturer Defects**. For support or warranty claims, please contact your retailer or the manufacturer directly with your purchase details.

