

## DC HOUSE L131211800111-1

# DC HOUSE 12V 10A LiFePO4 Battery Charger Instruction Manual

Model: L131211800111-1

## 1. INTRODUCTION

Thank you for choosing the DC HOUSE 12V 10A LiFePO4 Battery Charger. This smart trickle charger is designed to provide reliable charging and maintenance for both 12V Lead-Acid and 12V LiFePO4 Lithium batteries. It is suitable for a wide range of applications including RVs, cars, lawn mowers, motorcycles, and trucks. This manual provides essential information for safe and effective operation of your charger.

## 2. SAFETY INFORMATION

Please read all safety instructions carefully before using the charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always wear eye protection and protective clothing when working with batteries.
- Ensure the charging area is well-ventilated.
- Never smoke or allow sparks or flames in the vicinity of the battery or charger.
- Keep the charger away from children and unauthorized personnel.
- Disconnect the AC power supply before making or breaking connections to the battery.
- Do not charge frozen batteries.
- Do not use the charger if it has been damaged in any way.
- Ensure the charger is compatible with your battery type and voltage before connecting.

## 3. PRODUCT OVERVIEW

The DC HOUSE 12V 10A Battery Charger is a versatile and intelligent charging solution. It features a robust design and an intuitive LCD display for monitoring charging status.

# WHY CHOOSE DC HOUSE?



## Others

VS

## Ours



Only AGM, STD

### Compatibility

Supports LiFePO4, AGM, STD

Only pulse repair;  
forces repair on every startup

### Repair

Pulse repair + 0V activation;  
repair selectable

Only alligator

### Connector

SAE, alligator, copper lug

Integrated DC,  
needs frequent wiring

### Wiring

2-way split DC, plug-and-play

Trickle only manual

### Trickle

Auto trickle charging

No auto-stop;  
easy to overcharge

### Charging

Auto-stop when full;  
24/7 worry-free continuous use

0°C~28°C / 32°F~82°F

### Ambient Temp

-10°C~40°C / 14°F~104°F

The DC HOUSE 12V 10A Battery Charger unit with its integrated display and connection ports.

The charger comes equipped with multiple connection options for convenience:

# WIDE COMPATIBILITY

Fits LiFePO4 / AGM / STD batteries



**Chemistries**  
Fits LiFePO4, STD,  
AGM batteries



**Types**  
Fits starter, deepcycle,  
powersport batteries



**Supply Mode**  
Convert to a 10A DC  
power supply

The charger includes copper lug terminals, alligator clips, and an SAE connector for versatile battery connections.

The package typically includes:

- 1x DC HOUSE 12V 10A Battery Charger
- 1x User Manual
- 1x SAE-Copper Lug Connector
- 1x SAE-Alligator Clips Connector

## PRODUCT PARAMETERS

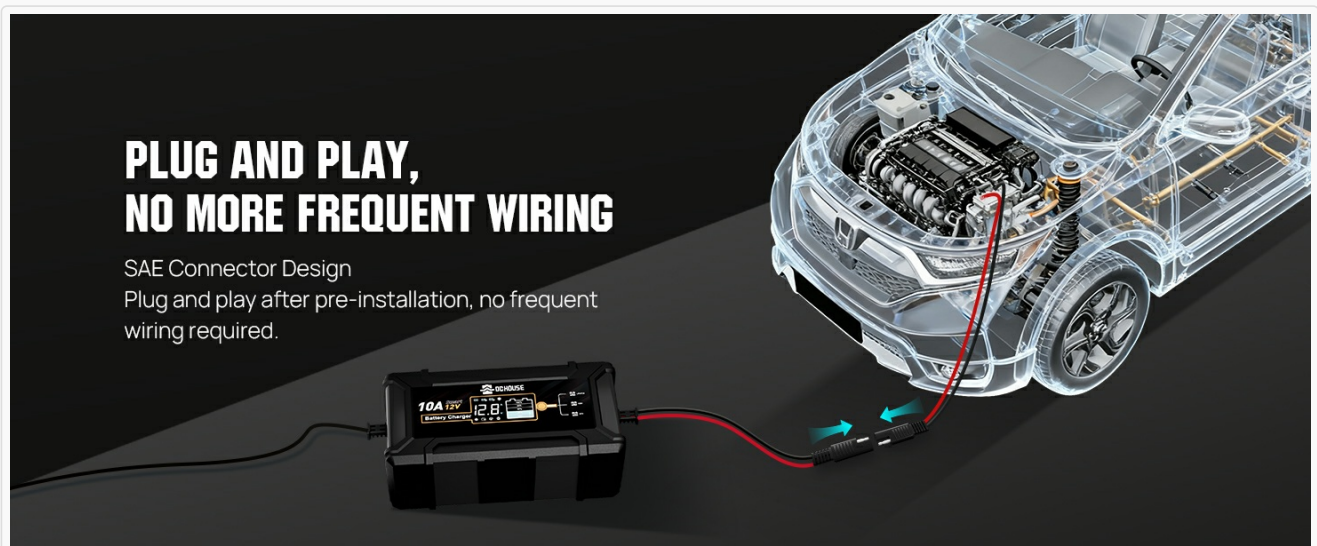
Input Voltage AC	120 VAC, 60Hz	
Output Power	150W	
Rated DC Output	LiFePO4 battery	14.6V 10A
	AGM battery	14.4V 10A
	STD battery	14.4V 10A
	DC Power Supply	12V 10A
Battery Voltage	12V	
Battery Type	LiFePO4, AGM, STD	
Minimum Starter Battery Voltage	0V	
Leakage Current	0.015mA	
Ambient Temperature	-10°C - 40°C/14°F - 104°F	
IP rating	IP64	
Dimension	19*10*7.5cm/7.48*3.94*2.95in	
Weight	1.2kg/2.64lb	

Contents of the DC HOUSE 12V 10A Battery Charger package, including the charger unit, manual, and various connectors.

## 4. SETUP AND CONNECTION

Follow these steps to safely connect your DC HOUSE battery charger:

- 1. Connect to Mains Power:** Plug the charger's AC power cord into a standard wall outlet. The charger's display should illuminate.
- 2. Select Desired Mode:** Press the 'MODE' button to cycle through the available charging modes (LiFePO4, AGM, STD, DC Power Supply). Select the mode appropriate for your battery type. The mode will lock once a battery is connected.
- 3. Connect SAE Cable to Battery:** Attach the appropriate SAE connector (copper lug or alligator clips) to your battery terminals. Ensure correct polarity: red to positive (+), black to negative (-).
- 4. Connect SAE Connector to Charger:** Plug the SAE connector from the battery into the charger's SAE port.



Visual guide illustrating the four steps to connect the DC HOUSE 12V 10A Battery Charger to a battery and power source.

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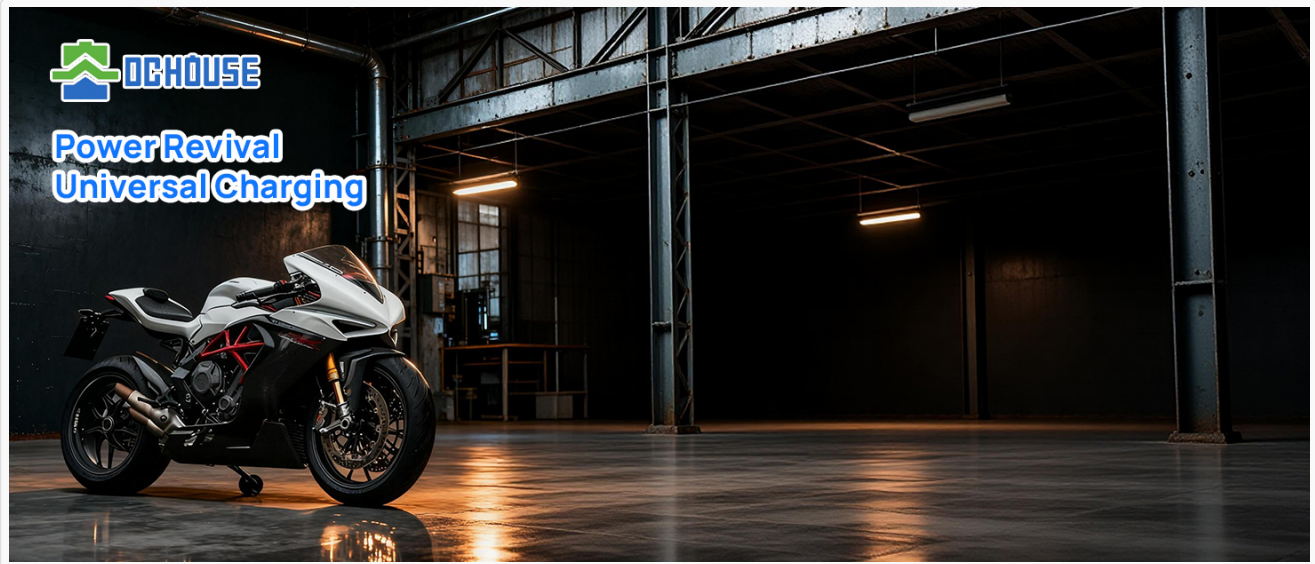
This video demonstrates the connection process of the DC HOUSE 12V 10A Battery Charger to a vehicle battery, highlighting the ease of use with its plug-and-play design.

## 5. OPERATING INSTRUCTIONS

Once connected, the charger will automatically begin the charging process based on the selected mode.

## 5.1. Charging Modes

- **LiFePO4 Mode:** For 12V Lithium Iron Phosphate batteries.
- **AGM Mode:** For 12V Absorbed Glass Mat batteries.
- **STD Mode:** For 12V Standard Lead-Acid batteries.
- **DC Power Supply Mode:** Provides a stable 12V DC output.



The charger supports various battery chemistries and types, including LiFePO4, AGM, and STD, and can also function as a 10A DC power supply.

## 5.2. 0V Dead Battery Activation

The charger can activate deeply discharged LiFePO4 batteries, even those with a triggered BMS protection lock, restoring them to a stable voltage for charging.



The charger features 0V LiFePO4 activation for deeply discharged batteries and Pulse Repair for lead-acid batteries.

## 5.3. Pulse Repair Technology

For damaged, stratified, or sulfated lead-acid batteries, the charger can initiate a pulse repair cycle. This process

typically takes up to 2 hours, after which the charger automatically switches to normal charging mode to restore battery capacity and extend service life.

#### 5.4. Smart Trickle Charging

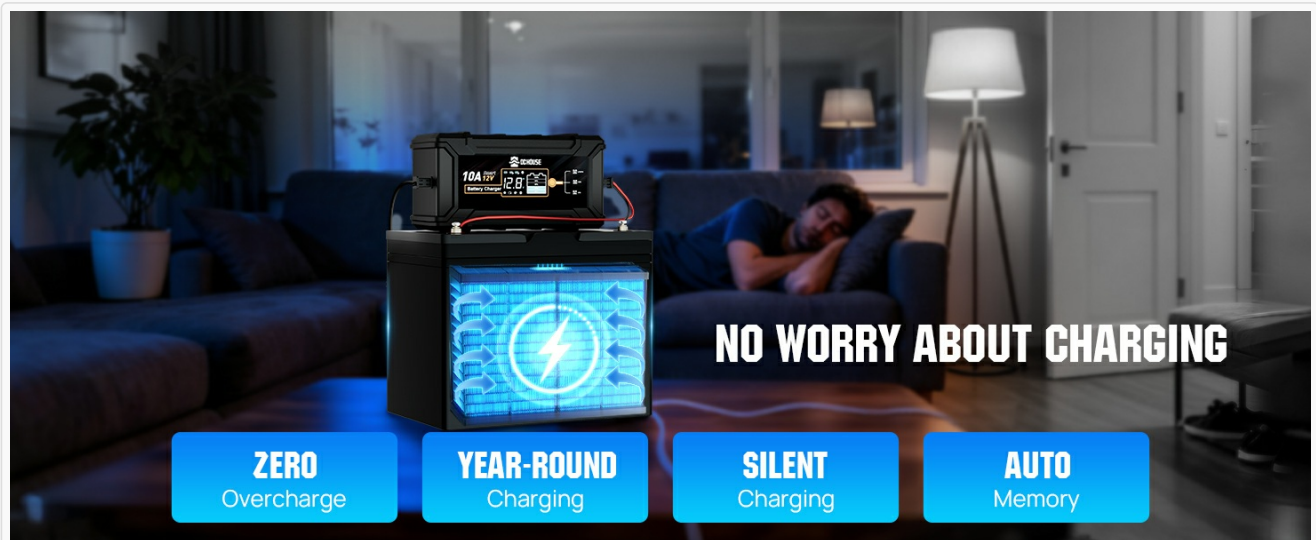
The charger safely maintains batteries with low-current trickle charging. It automatically stops charging once the battery is full to prevent overcharging, making it ideal for long-term maintenance of idle vehicles.



The smart trickle charging feature automatically maintains battery health, stopping when fully charged and restarting when power drops.

#### 5.5. Winter Battery Maintenance

The charger operates safely and efficiently in cold conditions (below 14°F / -10°C) with an intelligent pre-charging mode that uses reduced current to protect batteries. This ensures optimal performance during winter.



The charger adapts to ambient temperatures, providing low-temperature charging protection in cold weather and preventing overcharging in hot weather.

#### 5.6. Real-Time LCD Charging Status Display

The LCD interface provides clear, real-time information about the charging process.

# SMART CHIP MULTIPLE SAFETY PROTECTIONS



Auto-Stop on  
Full Charge



Reverse Connection  
Protection



Short-Circuit  
Protection



High-Temp  
Protection



Low-Voltage  
Protection

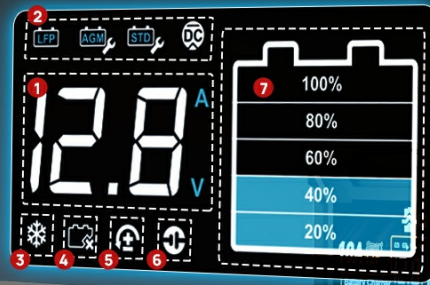


Over-Voltage  
Protection

The LCD screen displays real-time charging voltage, current, battery percentage, and status alerts for easy monitoring.

## CHARGING STATUS AT A GLANCE

- ① Voltage and Current Indicator
- ② Charging Mode
- ③ Low-Temp Charging
- ④ Faulty Battery
- ⑤ Reverse Polarity
- ⑥ Short Circuit
- ⑦ SOC of Battery



Note: Screen switches battery voltage/charging current every 15s; Backlight off after 60s, press Mode to reactivate.

Detailed view of the LCD display, showing indicators for voltage, current, charging mode, low-temp charging, faulty battery, reverse polarity, short circuit, and State of Charge (SOC).

**Note:** The display automatically turns off after 1 minute by default. Press the "MODE" button to reactivate it; current and voltage will alternate every 15 seconds.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your charger and batteries.

- **Cleaning:** Disconnect the charger from all power sources and batteries before cleaning. Use a dry, soft cloth to wipe the exterior. Do not use abrasive cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are neatly coiled and not kinked.
- **Cable Inspection:** Regularly inspect the charging cables and connectors for any signs of damage, wear, or corrosion. Replace damaged components immediately.

## 7. TROUBLESHOOTING

If you encounter issues with your charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not turning on	No AC power; faulty power outlet; damaged power cord.	Check AC power connection; test outlet with another device; inspect power cord for damage.
Charger not charging battery	Incorrect battery connection (reverse polarity); battery too deeply discharged (below 0V for LiFePO4); incorrect mode selected; faulty battery.	Verify correct polarity; ensure battery voltage is within charger's range; select correct charging mode; test battery condition.
Error message on display	Short circuit; reverse polarity; over-temperature.	Check connections for short circuits; correct polarity; allow charger to cool down.

Problem	Possible Cause	Solution
Charger gets hot	Normal operation; poor ventilation; excessive load.	Ensure adequate ventilation around the charger; if excessively hot, disconnect and contact support.

If the problem persists after attempting these solutions, please contact customer support.

## 8. SPECIFICATIONS

Feature	Specification
Brand	DC HOUSE
Product Dimensions	3.94"D x 7.48"W x 2.95"H
Item Weight	2.6 Pounds
Output Voltage	12 Volts (DC)
Input Voltage	12 Volts (DC)
Current Rating	10 Amps
Amperage	10 Amps
Connector Type Used on Cable	Copper lug terminals, alligator clips, SAE connector
Number of Ports	1
Mfr Part Number	L131211800111-1
UPC	810198851014
Manufacturer	DC HOUSE
Warranty Description	1 year

**WIDE RANGE OF APPLICATIONS**



RV



Boat



Car



Motorcycle



Lawn Mower

A detailed table of product parameters for the DC HOUSE 12V 10A Battery Charger, including input/output voltage, current, battery types, and ambient temperature range.

## 9. WARRANTY AND SUPPORT

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### 9.1. Warranty Information

The DC HOUSE 12V 10A LiFePO4 Battery Charger comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

### 9.2. Customer Support

For technical assistance, warranty claims, or any questions regarding your DC HOUSE product, please refer to the contact information provided on the product packaging or the official DC HOUSE website. When contacting support, please have your model number (L131211800111-1) and proof of purchase readily available.