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› Ampeak 15A Smart Trickle Car Battery Charger Instruction Manual (Model CGUFB2015)

Ampeak CGUFB2015

Ampeak 15A Smart Trickle Car Battery Charger Instruction Manual

Model: CGUFB2015

1. INTRODUCTION

The Ampeak 15A Smart Trickle Car Battery Charger is a versatile and intelligent device designed to charge and maintain various 12V/6V batteries, including Lead-Acid, LiFePO4, AGM, Marine, and RV batteries. It features an 8-stage charging program, winter mode, auto desulfation, and reconditioning functions to optimize battery health and extend lifespan. This manual provides essential information for safe and effective operation.



Figure 1: Ampeak 15A Smart Battery Charger. This image shows the main unit with its handle, display screen, control buttons, and attached battery clamps.

2. SAFETY INFORMATION

Always read and understand all safety instructions before using the charger. Failure to follow these instructions may lead to electric shock, fire, or serious injury. Keep the charger away from children. Ensure proper ventilation during charging.

2.1 Important Safety Features

- **Spark-Proof Connections:** Designed to prevent sparks during connection to the battery terminals.
- **Reverse Polarity Protection:** Automatically prevents damage if battery clamps are connected incorrectly.
- **Overcharge Protection:** Prevents battery damage from overcharging by automatically switching to maintenance mode.
- **Over-Voltage/Over-Current Protection:** Safeguards against excessive voltage or current.
- **Overheat Protection:** Internal sensors monitor temperature to prevent overheating.
- **Short Circuit Protection:** Automatically shuts off in case of a short circuit.



Figure 2: ETL-Certified Safety Features. This image highlights the ETL certification and various safety protections including spark-proof, over-voltage, over-current, reverse polarity, overheating, overtime charging, anti-current backflow, and short circuit protection.

3. PRODUCT OVERVIEW

The Ampeak 15A Smart Battery Charger features an intuitive LCD display and easy-to-use buttons for selecting charging modes and monitoring status.

3.1 Controls and Display

- **LCD Display:** Shows real-time charging status, voltage, current, battery type, and error messages.
- **AMPS Button:** Selects charging current (2A Trickle, 8A Quick, 15A Rapid, or Auto).
- **Battery Type Button:** Selects battery chemistry (GEL, STD, AGM, DC/CA/LI).
- **Volts Button:** Selects battery voltage (6V/12V).
- **Winter Mode Button:** Activates charging optimized for cold temperatures.
- **Desulfation Button:** Initiates pulse desulfation to restore sulfated batteries.
- **Recondition Button:** Activates a reconditioning cycle for older or weak batteries.
- **Engine Start Button:** Provides a 100A boost for engine starting.
- **Start Button:** Initiates the selected charging process.



Figure 3: HD LCD Display and Controls. This image illustrates the clear LCD display and the various control buttons for mode selection and status monitoring.

4. SETUP AND CONNECTION

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion.
2. **Connect Clamps:** Attach the RED (+) clamp to the positive battery terminal and the BLACK (-) clamp to the negative battery terminal. Ensure a secure connection. The charger will display "PLEASE PUT THE CLAMPS ON" if not connected or if the battery voltage is too low to be recognized.
3. **Plug in Charger:** Connect the AC power cord to a standard electrical outlet.
4. **Select Battery Type:** Press the "Battery Type" button to select the correct battery chemistry (GEL, STD, AGM, DC/CA/LI).
5. **Select Voltage:** Press the "Volts" button to select 6V or 12V, matching your battery.
6. **Select Amperage:** Press the "AMPS" button to choose the desired charging current (2A, 8A, 15A, or Auto). Auto mode will automatically select the optimal current.
7. **Start Charging:** Press the "START" button to begin the charging process. The LCD will display the charging stage and progress.

Detect & Charge Batteries Below 1V

A Must For "Side-Posts Connection"

- Insulated all-inclusive clip, no leakage
- Bold inner core, stable current
- Large bite force, not fall off



85%

More Power

Industry Average: 75%

Figure 4: Connecting the Charger. This image shows the proper connection of the red and black clamps to a car battery, with the charger unit placed nearby.

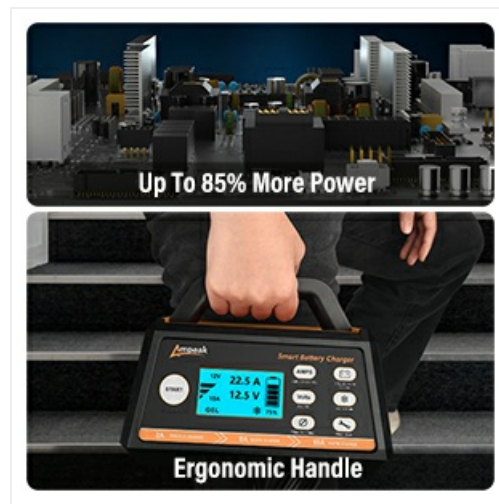


Figure 5: 1V Drained-Battery Savior. This image demonstrates the charger's ability to detect and charge batteries with voltage as low as 1V, indicated by a multimeter reading.

5. OPERATING MODES

The Ampeak 15A charger offers several operating modes to suit different battery needs:

- **2A Trickle Charge:** Ideal for long-term maintenance charging, keeping the battery fully charged without overcharging.
- **8A Quick Charge:** A faster charging option for moderately discharged batteries.
- **15A Rapid Charge:** The fastest charging option for deeply discharged batteries, providing up to 15 amps.
- **Auto Mode:** The charger intelligently detects the battery's state and selects the optimal charging current.
- **Winter Mode:** Adjusts charging parameters for optimal performance in cold weather conditions, ensuring efficient charging and preventing damage.
- **Pulse Desulfation:** Utilizes pulse technology to break down lead sulfate crystals that can build up on battery plates, improving battery capacity and lifespan.
- **Recondition:** A specialized mode to restore older, weak, or deeply discharged batteries by performing a controlled charge/discharge cycle.
- **Engine Start (100A Boost):** Provides a temporary high current boost to help start vehicles with a weak or dead battery.



Figure 6: Smart 8-Stage Charging. This diagram illustrates the comprehensive 8-stage charging process for standard, AGM, gel, and deep cycle batteries, including desulfation, soft start, bulk, absorption, analysis, recondition, float, and pulse maintenance stages.

Smart Battery Charger and Maintainer

Intelligently detect, charge, repair and pulse maintain !

6V 2A/8A/15A

12V 2A/8A/15A

-  Pulse Desulfation
-  Winter Mode Charging
-  Battery Recondition



Figure 7: Versatile Battery Compatibility. This image shows the charger's ability to handle various 6V and 12V battery types, including STD, AGM, GEL, Deep Cycle, Calcium, and Lithium (LiFePO4).

6. MEDIA INTEGRATION

6.1 Product Videos

Video 1: Ampeak 15A Battery Charger Overview. This video provides a general overview of the Ampeak 15A Smart Battery Charger, demonstrating its features and ease of use for various battery types.

Video 2: Winter Mode for Long-Term Storage. This video highlights the utility of the charger's Winter Mode, explaining how it helps maintain battery health when a vehicle is left unused for extended periods in cold conditions.

Video 3: Essential Garage Tool. This video showcases the Ampeak battery charger as a must-have item for any garage, emphasizing its convenience and reliability for keeping car batteries charged.

Video 4: Ampeak Battery Charger Features. This video provides a closer look at the various features and functions of the Ampeak battery charger, detailing its operational capabilities.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Ampeak battery charger.

- **Cleaning:** Disconnect the charger from power and battery. Wipe the casing with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Cable Inspection:** Periodically inspect the charging cables and clamps for any signs of damage, fraying, or corrosion. Replace if necessary.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are neatly coiled to prevent damage.
- **Battery Terminals:** Keep battery terminals clean and free of corrosion for efficient charging.

8. TROUBLESHOOTING

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

- **Charger Not Turning On:** Ensure the AC power cord is securely plugged into a live outlet. Check for tripped circuit breakers.
- **"PLEASE PUT THE CLAMPS ON" Message:** Verify that the battery clamps are securely connected to the correct battery terminals (Red to +, Black to -). If the battery is extremely discharged (below 1V), the charger may not recognize it. Try jump-starting the vehicle or connecting to a known good battery for a few minutes to raise the voltage.
- **Charging is Slow:** Ensure the correct amperage mode is selected. For faster charging, select 8A or 15A. Check battery health; older or damaged batteries may charge slowly.
- **Charger Overheating:** Ensure the charger is in a well-ventilated area. Check for obstructions to the cooling vents. If overheating persists, disconnect and contact customer support.
- **Battery Not Holding Charge:** This may indicate a faulty battery rather than a charger issue. Consider having the battery tested by a professional.

9. SPECIFICATIONS

Feature	Specification
Product Dimensions	5.29 x 9.76 x 3.91 inches
Item Weight	2.42 pounds (1.1 Kilograms)
Output Voltage	12 Volts
Charging Current	2A / 8A / 15A (Auto)
Battery Compatibility	12V/6V Lead-Acid, LiFePO4, AGM, Marine, RV Batteries
Model Number	CGUFB2015
Manufacturer	Ampeak
Safety Certifications	ETL Certified

10. WARRANTY AND SUPPORT

The Ampeak 15A Smart Trickle Car Battery Charger comes with a **30-day return policy** and an **18-month warranty**. For any questions, technical assistance, or warranty claims, please contact Ampeak customer support. Dedicated customer support is available to assist you at any time.
For further assistance, please visit the [Ampeak Store on Amazon](#).

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Question

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