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› AVID POWER 12V Battery Charger Instruction Manual for ACD121 & ACD122 Drills

AVID POWER AP12V-Charger

AVID POWER 12V Battery Charger Instruction Manual

Model: AP12V-Charger

1. INTRODUCTION

Thank you for choosing the AVID POWER 12V Battery Charger. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your charger. Please read this manual thoroughly before use and retain it for future reference.



Image 1.1: AVID POWER 12V Battery Charger.

2. IMPORTANT SAFETY INFORMATION

To prevent electric shock, fire, or serious injury, always follow basic safety precautions when using electrical appliances. This charger is designed for specific use; improper use can be dangerous.

2.1. Compatibility Warnings

- **ONLY COMPATIBLE** with AVID POWER 12V electric tools, specifically electric drills **ACD121** and **ACD122**.
- **NOT compatible** with the 12V electric ratchet wrench ACRW309-3/8-Low or any other AVID POWER tools not listed above.
- **NOT COMPATIBLE** with any machines or batteries from other brands such as Hyper Tough, Dewalt, BLACK+DECKER, CRAFTSMAN, RYOBI, WORKPRO, Milwaukee, Makita, Bosch, etc.
- **NOT COMPATIBLE** with AVID POWER 20V batteries from 20V electric tools.



Image 2.1: Visual guide to charger compatibility, highlighting that only AVID POWER 12V batteries are supported.

2.2. General Safety Precautions

- Do not expose the charger to rain or wet conditions.
- Do not use the charger if the cord or plug is damaged.
- Always unplug the charger from the power outlet before attempting any cleaning or maintenance.
- Do not attempt to disassemble the charger. Refer all servicing to qualified service personnel.
- Ensure adequate ventilation during charging. Do not cover the charger.

3. PRODUCT OVERVIEW

The AVID POWER 12V Battery Charger is designed to provide reliable power to your compatible 12V AVID POWER batteries. It features a robust design with built-in safety mechanisms.

3.1. Charger Components

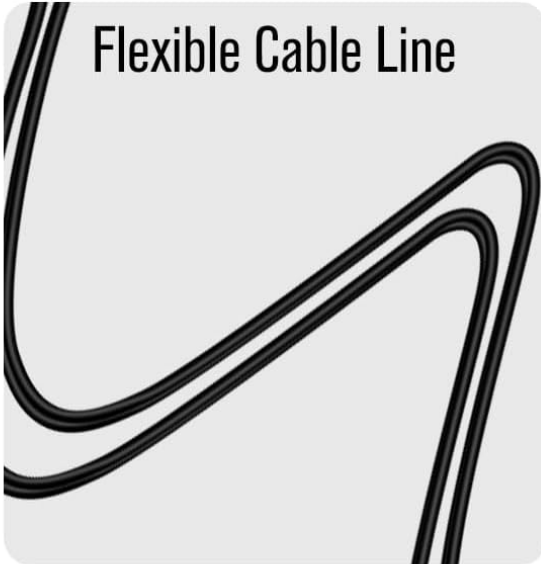
- **US Standard Plug:** For connecting to standard wall outlets.
- **Flexible Cable Line:** Durable and flexible for ease of use.
- **Anti-oxidant Connector:** Ensures a stable and efficient connection to the battery.
- **LED Indicator:** Provides charging status feedback.

Charger Details

US Standard Plug



Flexible Cable Line



Anti-oxidant Connector



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Image 3.1: Detailed view of the charger's plug, cable, and connector.



Image 3.2: US Standard Plug detail.

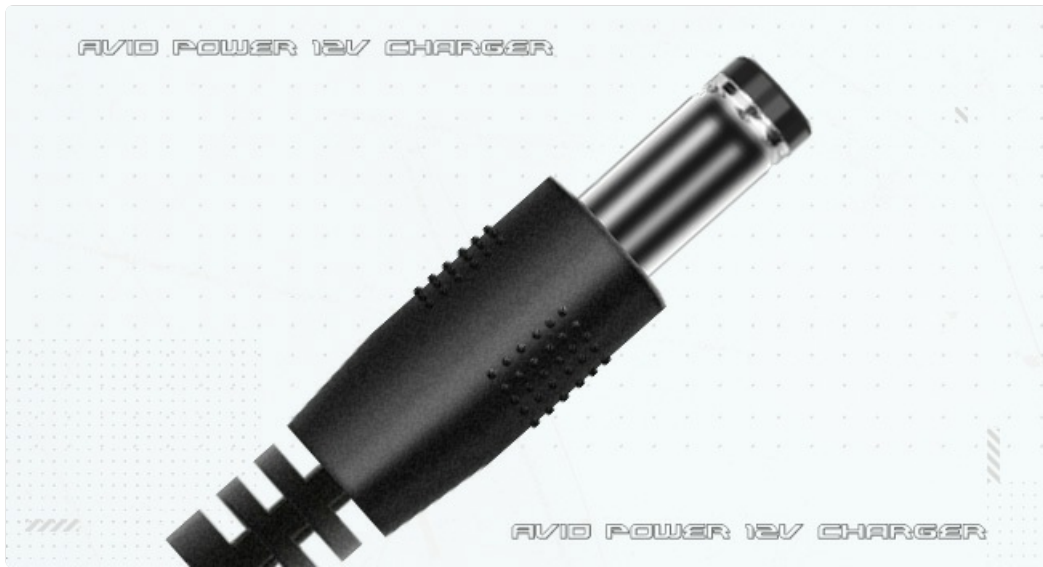


Image 3.3: Anti-oxidant Connector detail.

3.2. Input and Output Specifications

- **Input Voltage:** 110V-240V ~ 60Hz (Wide Compatible Voltage)
- **Output Voltage:** 12 Volts

Steady Power for 12V Battery

Input

110-240 Volts~60Hz



Output

12 Volts



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Image 3.4: Input and Output Voltage illustration.

4. SETUP AND OPERATING INSTRUCTIONS

4.1. Initial Setup

1. Ensure the charger is placed on a stable, dry, and well-ventilated surface.
2. Verify that the battery you intend to charge is an AVID POWER 12V battery (models ACD121 or ACD122).

4.2. Charging Process

1. Plug the charger into a standard 110V-240V AC power outlet. The LED indicator on the charger should illuminate green, indicating an idle state or no load.
2. Connect the anti-oxidant connector of the charger to the charging port of your AVID POWER 12V battery.

3. Once connected, the LED indicator will turn **red**, signifying that the battery is actively charging.
4. When the battery is fully charged, the LED indicator will change back to **green**.
5. Disconnect the charger from the battery, then unplug the charger from the power outlet.

A 2.0Ah battery typically takes 3-5 hours to fully charge.

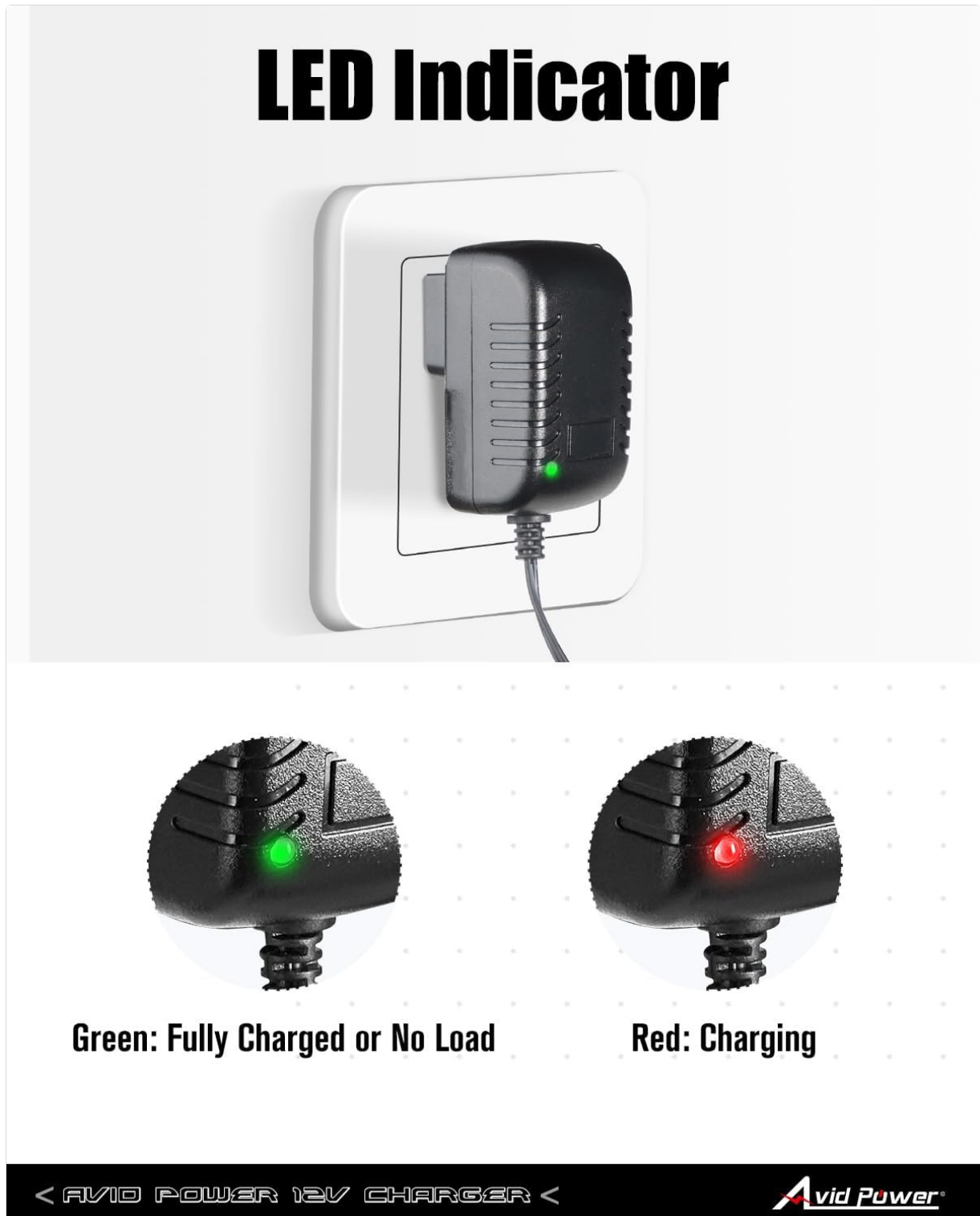


Image 4.1: LED Indicator states (Green: Fully Charged/No Load, Red: Charging).

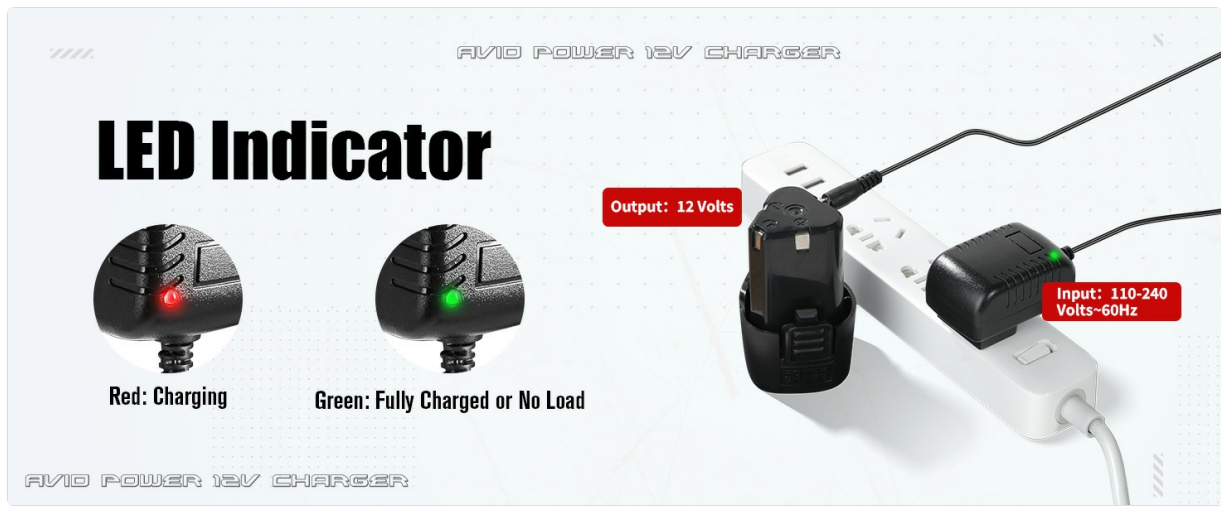


Image 4.2: Charger in operation, showing input, output, and LED indicator.

5. BUILT-IN PROTECTIONS

The AVID POWER 12V charger incorporates multiple safety features to ensure a safe and reliable charging experience:

- **Over-current Protection:** Prevents damage from excessive current flow.
- **Over-voltage Protection:** Safeguards against damage from voltage surges.
- **Short Circuit Protection:** Automatically shuts off in case of a short circuit.



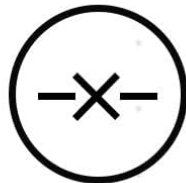
Built in Multi-protection



Over-current protection



Over-voltage protection



Short circuit protection



Safe and Reliable

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Image 5.1: Visual representation of the charger's multi-protection features.



Image 5.2: Battery protection features overview.

6. MAINTENANCE

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

- Keep the charger clean and free from dust and debris. Use a dry, soft cloth for cleaning.
- Store the charger in a dry environment, away from direct sunlight and extreme temperatures.
- Regularly inspect the power cord and connector for any signs of damage. Do not use if damaged.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger LED does not light up.	No power to the outlet; charger or cord is damaged.	Check the power outlet with another device. Inspect the charger and cord for damage. If damaged, do not use.
LED remains green when battery is connected.	Battery not properly connected; battery is already fully charged; incompatible battery.	Ensure the battery is securely connected. Check if the battery is already fully charged. Verify battery compatibility (AVID POWER 12V only).
Battery does not charge after several hours.	Faulty battery; charger malfunction.	Test with another compatible battery if available. If the issue persists, contact customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	AVID POWER
Model Number	AP12V-Charger

Feature	Specification
Input Voltage	110-240 Volts
Output Voltage	12 Volts
Item Weight	0.19 Pounds
Manufacturer	AVID POWER

9. WARRANTY AND SUPPORT

This AVID POWER 12V Battery Charger comes with a **2-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your product, please contact AVID POWER customer service through their official website or the retailer where the product was purchased. Please have your model number (AP12V-Charger) and proof of purchase ready.