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› Absaar AB-PRO1 Battery Charger PRO1.0 1A 6/12V User Manual

Absaar AB-PRO1

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Model: AB-PRO1 | Brand: Absaar

INTRODUCTION

The Absaar AB-PRO1 Battery Charger PRO1.0 is a fully automatic, microprocessor-controlled battery charger designed for 6V and 12V lead-acid batteries, including sealed lead acid, flooded, and gel types. It features 9 charging stages and an LCD display for user-friendly operation, making it ideal for maintaining batteries in seasonal vehicles like classic cars, motorcycles, and convertibles. Its built-in safety features include reverse polarity and short circuit protection.

SAFETY INFORMATION

- Always read the entire manual before using the charger.
- Ensure proper ventilation during charging to prevent gas accumulation.
- Do not charge frozen batteries.
- Avoid sparks or flames near the battery during charging.
- Wear eye protection and gloves when handling batteries.
- Keep out of reach of children.
- Disconnect the charger from the AC outlet before making or breaking connections to the battery.
- This charger is designed for lead-acid batteries only. Do not use for other battery types.

PACKAGE CONTENTS



The package includes the Absaar AB-PRO1 Battery Charger unit, a power cord, battery clamps (crocodile clips), and O-

ring terminal connectors for permanent battery connection. All necessary cables for connecting to the battery are provided.

- Absaar AB-PRO1 Battery Charger Unit
- AC Power Cord
- Battery Clamp Connectors (Red and Black)
- O-Ring Terminal Connectors

PRODUCT OVERVIEW



The Absaar AB-PRO1 features a compact design with a red and black casing. The front panel includes an LCD display that shows charging voltage and status, along with a "MODE" button for selecting charging programs. Indicators for STD (Standard), AGM, 6V, and IP65 (water resistance rating) are also visible. The charger is microprocessor-controlled for efficient and safe operation.

Key Components:

- **LCD Display:** Shows charging status, voltage, and selected mode.
- **MODE Button:** Used to cycle through different charging programs (e.g., 6V, 12V, AGM, Winter Mode).
- **Input Power Cord:** Connects the charger to an AC power outlet.
- **Output Cables:** Connect to the battery via interchangeable connectors (clamps or O-rings).
- **Ventilation Slots:** Located on the casing to ensure proper heat dissipation.

SETUP

Connecting to the Battery:

1. **Ensure Charger is Disconnected:** Before making any connections, ensure the charger's AC power cord is unplugged from the wall outlet.
2. **Choose Connector Type:** Select either the battery clamps or the O-ring terminal connectors based on your application.



The charger comes with both traditional battery clamps for temporary connections and O-ring terminals for more permanent installations, such as for trickle charging seasonal vehicles.

3. Connect to Battery Terminals:

- Connect the **RED (+)** positive clamp/O-ring to the **positive (+)** battery terminal.
- Connect the **BLACK (-)** negative clamp/O-ring to the **negative (-)** battery terminal.
- Ensure connections are secure and clean.

4. **Connect Charger to Power:** Once the battery connections are secure, plug the charger's AC power cord into a suitable wall outlet. The charger will power on and display its initial status.

OPERATING INSTRUCTIONS

Selecting a Charging Program:

The Absaar AB-PRO1 is a fully automatic charger with 9 charging stages. After connecting the charger to the battery and power, it will automatically detect the battery voltage (6V or 12V). You can use the "MODE" button to select specific charging programs if needed.

- **Automatic Detection:** The charger will typically detect if it's a 6V or 12V battery and begin the appropriate charging cycle.
- **MODE Button:** Press the "MODE" button to cycle through available charging programs. These may include:
 - **12V STD:** For standard 12V lead-acid batteries.
 - **12V AGM:** For 12V AGM (Absorbed Glass Mat) batteries.
 - **12V Winter Mode:** For optimal charging in low temperatures (below 5°C / 41°F).
 - **6V STD:** For standard 6V lead-acid batteries.
- **LCD Display:** The LCD display will show the current voltage, charging progress, and the selected mode.
- **Charging Process:** The charger will proceed through its 9-stage charging process, which includes desulfation, soft start, bulk charge, absorption, analysis, recondition, float, and pulse maintenance.
- **Completion:** The charger will automatically switch to maintenance (trickle charge) mode once the battery is fully charged, preventing overcharging. It can maintain batteries up to 120Ah.

Disconnecting the Charger:

1. Unplug the AC power cord from the wall outlet first.
2. Disconnect the BLACK (-) negative clamp/O-ring from the battery.
3. Disconnect the RED (+) positive clamp/O-ring from the battery.

MAINTENANCE

- **Cleaning:** Clean the charger casing with a soft, dry cloth. Do not use harsh chemicals or abrasives.
- **Cable Inspection:** Regularly inspect the power cord and output cables for any signs of damage, fraying, or corrosion. Replace if damaged.
- **Connector Care:** Keep battery clamps and O-ring terminals clean and free of corrosion.
- **Storage:** Store the charger in a cool, dry place when not in use. Avoid extreme temperatures and direct sunlight.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger does not turn on.	No power from outlet; loose connection; faulty charger.	Check wall outlet with another device. Ensure power cord is securely plugged in. If problem persists, contact support.

Problem	Possible Cause	Solution
Charger shows error or does not charge.	Incorrect battery connection (reverse polarity); battery is severely discharged or damaged; wrong mode selected.	Verify positive (+) and negative (-) connections. Check battery voltage. Select appropriate charging mode. If battery is below 2V, it may not be recognized.
Charging takes too long.	Battery is large or deeply discharged; battery is old/damaged.	Charging time depends on battery capacity and discharge level. For very large or deeply discharged batteries, it will take longer. Consider battery health.
Charger gets warm during operation.	Normal operation; poor ventilation.	It is normal for the charger to get warm. Ensure it is placed in a well-ventilated area and not covered.

SPECIFICATIONS

Feature	Detail
Brand	Absaar
Model	AB-PRO1
Charging Voltage	6V / 12V (Automatic Detection)
Charging Current	1 Amp
Battery Capacity (Trickle Charge)	Up to 120Ah
Charging Stages	9 Tufen (9 Stages)
Battery Types	Sealed Lead Acid, Fleece, Gel (STD, AGM)
Special Features	LCD Display, Winter Mode, Reverse Polarity Protection, Short Circuit Protection
Product Dimensions	24 x 14 x 5 cm
Item Weight	460 Grams
Color	Red
Certifications	CE

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Absaar website. Keep your proof of purchase for any warranty claims.

For further assistance, you may contact Absaar customer service through their official channels. Please have your product model number (AB-PRO1) and purchase details ready.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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