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> Absaar AB-JS012 6/12V Digital Battery Charger with 75Amp Engine Start User Manual

Absaar AB-JS012

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Model: AB-JS012 | Brand: Absaar

1. INTRODUCTION

The Absaar AB-JS012 is a versatile 6/12V digital battery charger and engine starter designed for various battery types, including sealed lead-acid, AGM, and gel batteries. It provides a charging current of up to 12 Amps and an engine start boost of up to 75 Amps. This unit is suitable for charging batteries up to 120Ah and can assist in starting petrol engines up to 3000cc and diesel engines up to 2000cc. Equipped with smart circuits, it offers protection against reverse polarity and short circuits, preventing overcharging. An integrated LCD screen displays battery status and charging information, and a reconditioning function helps restore low current batteries.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating this device. 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 adequate ventilation in the charging area to disperse explosive gases.
- Do not smoke or allow sparks or flames in the vicinity of the battery or charger.
- Connect the charger to the battery before plugging it into an AC power outlet. Disconnect AC power before disconnecting from the battery.
- Keep the charger away from children and unauthorized persons.
- Do not use the charger if cables or clamps are damaged.
- Never attempt to charge frozen batteries.
- Ensure the charger is set to the correct voltage (6V or 12V) for your battery.
- Avoid touching battery terminals together.

3. PRODUCT OVERVIEW

The Absaar AB-JS012 features a robust design with an intuitive control panel and clear digital display for ease of use.



Figure 3.1: Front view of the Absaar AB-JS012 Digital Battery Charger, showing the display and control buttons.



Figure 3.2: Close-up of the control panel, highlighting the digital display, voltage/battery type selection, and engine start options.

Components:

- **Main Unit:** Houses the charging circuitry, display, and controls.
- **Digital Display:** Shows voltage, charging percentage, and status indicators.
- **Control Buttons:** For selecting display mode, battery type, and engine start options.
- **Battery Clamps:** Heavy-duty red (positive) and black (negative) clamps for secure battery connection.
- **AC Power Cord:** For connecting the charger to a standard wall outlet.

4. SETUP

Follow these steps for initial setup and connection of your Absaar AB-JS012 charger.

4.1 Unpacking and Inspection

1. Carefully remove the charger and all accessories from the packaging.
2. Inspect the unit for any signs of damage during shipping. Do not use if damaged.
3. Ensure all components listed in the package contents are present.

4.2 Connecting to the Battery



Figure 4.1: The Absaar AB-JS012 charger with its red and black battery clamps ready for connection.



Figure 4.2: Detailed view of the robust red (positive) and black (negative) battery clamps.

1. Ensure the charger is unplugged from the AC power outlet.

2. Identify the positive (+) and negative (-) terminals on your vehicle battery. The positive terminal is usually larger and marked with a plus sign.
3. Connect the **RED** positive (+) clamp to the positive (+) battery terminal.
4. Connect the **BLACK** negative (-) clamp to the negative (-) battery terminal. If connecting to a vehicle, connect the black clamp to a non-painted metal part of the vehicle chassis, away from the battery and fuel line.
5. Ensure connections are secure and free from corrosion.

4.3 Connecting to AC Power

1. Once the battery clamps are securely connected, plug the charger's AC power cord into a standard 230V AC wall outlet.
2. The charger will power on, and the LCD display will illuminate.

5. OPERATING INSTRUCTIONS

The Absaar AB-JS012 offers multiple functions for battery charging and engine starting.

5.1 Charging a Battery

1. **Select Battery Voltage:** The charger automatically detects 6V or 12V batteries. Verify the correct voltage is displayed.
2. **Select Battery Type:** Press the "Battery Select" button to cycle through battery types: STD (Standard Lead-Acid), AGM, and GEL. Choose the type that matches your battery for optimal charging.
3. **Start Charging:** The charger will automatically begin the charging process once the battery type is selected. The LCD will show the charging voltage and battery percentage.
4. **Reconditioning Function:** If the battery is deeply discharged or requires reconditioning, the charger may automatically initiate a reconditioning cycle. This function helps to restore battery capacity.
5. **Charging Completion:** The charger will automatically switch to maintenance mode (float charge) once the battery is fully charged to prevent overcharging. The display will indicate full charge.

5.2 Engine Start Function (Jump Start)

The engine start function provides a temporary boost to start vehicles with a discharged battery.

1. **Connect to Battery:** Ensure the charger is correctly connected to the vehicle battery as described in Section 4.2.
2. **Select Engine Start Mode:** Press the "Start" button to choose between "Fast" or "Slow" engine start modes. "Fast" provides maximum boost, while "Slow" offers a gentler start.
3. **Attempt Engine Start:** With the engine start mode selected, attempt to start the vehicle's engine. Do not crank the engine for more than 5 seconds. If the engine does not start, wait for 1-2 minutes before trying again.
4. **Disconnect:** Once the engine starts, immediately disconnect the AC power cord from the wall outlet, then disconnect the black negative (-) clamp, followed by the red positive (+) clamp.

Note: The engine start function is designed for short, intermittent use. Prolonged cranking can damage the charger or vehicle electrical system.

6. MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your Absaar AB-JS012 charger.

- **Cleaning:** Disconnect the charger from all power sources and batteries before cleaning. Wipe the exterior with a soft, damp cloth. Do not use harsh chemicals or abrasives.
- **Cable and Clamp Inspection:** Regularly inspect the charging cables and battery clamps for any signs of damage, fraying, or corrosion. Replace damaged components immediately.
- **Storage:** Store the charger in a cool, dry place, away from direct sunlight and moisture. Ensure cables are neatly coiled and

clamps are not touching each other or any metal surfaces.

7. TROUBLESHOOTING

If you encounter issues with your Absaar AB-JS012, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Charger does not power on.	No AC power; faulty power cord.	Check AC outlet and power cord connection. Try a different outlet.
Battery not charging.	Incorrect battery connection; wrong battery type selected; deeply discharged battery.	Verify clamp connections. Ensure correct battery type is selected. Allow time for reconditioning cycle if battery is very low.
Engine start function not working.	Poor battery connection; vehicle battery too low; engine too large for booster.	Check battery clamp connections. Ensure vehicle battery has some residual charge. Confirm engine size is within specified limits.
Error message on LCD.	Reverse polarity; short circuit; internal fault.	Disconnect immediately. Check battery connections for correct polarity. Inspect cables for shorts. If error persists, contact support.

8. SPECIFICATIONS

Technical specifications for the Absaar AB-JS012 Digital Battery Charger.



ABSAAR
OVER 40 YEARS OF GERMAN TECHNOLOGY

Automatic

120 Ah
Max. battery capacity

6/12 Volt

12 Amp
Max. output

75 Amp
Engine start

ABSAAR AB-JS012

Robustes **Batterieladegerät** Für alle Batteriearten sowie 6V und 12V. Geeignet für Batterien bis 120Ah, Starthilfe bis zu 75A, geeignet für Benzinmotoren bis 3000ccm Hubraum und Dieselmotoren bis 2000ccm Hubraum

Battery charger Suitable for all kind of batteries like lead acid / agm / gel and voltage 6V/12V. Suitable for batteries up to 120Ah, Jump Start output 75A, suitable for petrol engines up to 3000ccm and diesel engines up to 2000ccm

Chargeur de batterie automatique adapté à toutes les batteries de 6V et 12V. Telles que plomb acide / agm / gel. Convient aux batteries jusqu'à 120Ah, et Aide au démarrage 75a, adapté pour moteurs essence jusqu'à 3000ccm et moteurs diesel jusqu'à 2000ccm

6/12V DIGITAL BATTERY CHARGER WITH 75AMP ENGINE START

Voltmeter, Battery status, Start, Engine start, Fast, Slow, Digital display, Charge indicator, CE, RoHS, GS

Model: AB-JS012

2 YEARS WARRANTY

GERMAN ENGINEERING



Figure 8.1: Dimensions of the Absaar AB-JS012 charger: 27cm (Width) x 18cm (Height) x 13cm (Depth).

Feature	Specification
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Feature	Specification
Brand	Absaar
Model Number	AB-JS012
Charging Voltage	6V / 12V
Max Charging Current	12 Amp
Engine Start Current (Booster)	Up to 75 Amp
Max Battery Capacity	120 Ah
Petrol Engine Compatibility	Up to 3000cc
Diesel Engine Compatibility	Up to 2000cc
Input Voltage	12 Volt (AC input not specified, typically 230V AC)
Output Voltage	12 Volt
Product Dimensions (D x W x H)	13cm x 27cm x 18cm
Item Weight	7 Kilograms
Safety Standard	UL Certified
UPC	04045365119031

9. WARRANTY AND SUPPORT

The Absaar AB-JS012 Digital Battery Charger comes with a 2-year guarantee, ensuring quality and reliability.



Figure 9.1: Product packaging showing key features and the 2-year guarantee.

For warranty claims, technical support, or further assistance, please refer to the manufacturer's official website or contact their customer service department. Keep your proof of purchase for warranty validation.

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