

Absaar N/E AmpM SH180

Absaar N/E AmpM SH180 12V 22A Battery Charger User Manual

Model: N/E AmpM SH180 | Brand: Absaar

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your Absaar N/E AmpM SH180 12V 22A Battery Charger. This professional charger is designed for 12V vehicle batteries, offering a maximum charging capacity of 22A. It features switchable charging modes for standard (30-160 Ah) and fast (50-225 Ah) battery capacities, along with a powerful 180-ampere starter function. The unit is constructed with a robust metal casing for durability.

Please read this manual thoroughly before operating the device to ensure proper function and to prevent damage or injury.

2. IMPORTANT SAFETY INSTRUCTIONS

Always observe the following safety precautions when using the battery charger:

- **Electrical Shock Hazard:** Do not expose the charger to rain or wet conditions. Never touch uninsulated battery terminals or wires.
- **Explosive Gases:** Batteries generate explosive gases during normal operation. Ensure adequate ventilation when charging. Avoid open flames, sparks, and smoking near the battery.
- **Eye and Skin Protection:** Always wear safety glasses and protective clothing when working with batteries. Battery acid is corrosive.
- **Reverse Polarity Protection:** The charger is equipped with protection against reverse polarity, short circuits, and overloads. However, always ensure correct connection to prevent damage.
- **Ventilation:** Ensure the charger is placed in a well-ventilated area during operation to prevent overheating.
- **Children and Unauthorized Personnel:** Keep the charger out of reach of children and ensure only trained individuals operate the device.
- **Damaged Equipment:** Do not operate the charger if it has been dropped, damaged, or if the power cord is frayed. Contact qualified service personnel.

3. PRODUCT OVERVIEW AND COMPONENTS

Familiarize yourself with the main components of your Absaar N/E AmpM SH180 battery charger:



Figure 3.1: Main view of the Absaar N/E AmpM SH180 12V 22A Battery Charger. The robust red metal casing is visible, with the control panel on the front.



Figure 3.2: Close-up view of the charger's front control panel. It features a switch for charging modes (standard/fast), an ammeter, and indicators for battery capacity ranges.

- **Charging Mode Selector:** A switch to select between standard (30-160 Ah) and fast (50-225 Ah) charging modes.
- **Ampere Meter:** Displays the current charging rate in amperes.
- **180 AMP Start Function:** Provides a boost for starting vehicles with low batteries.
- **Battery Clamps:** Red (+) and Black (-) clamps for connecting to the battery terminals.
- **Power Cord:** For connecting the charger to a mains power supply.

4. SETUP

Follow these steps for initial setup:

1. **Placement:** Place the charger on a stable, level surface in a well-ventilated area, away from flammable

materials.

2. **Battery Preparation:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush.
3. **Connect Battery Clamps:**
 - Connect the RED positive (+) clamp to the positive (+) terminal of the battery.
 - Connect the BLACK negative (-) clamp to the negative (-) terminal of the battery.
 - Ensure connections are secure.
4. **Connect to Power:** Plug the charger's power cord into a suitable mains power outlet.

5. OPERATING INSTRUCTIONS

The Absaar N/E AmpM SH180 offers two primary functions: battery charging and a starter assist.

5.1. Battery Charging

1. **Select Charging Mode:** Based on your battery's capacity, use the charging mode selector switch on the front panel to choose:
 - **Standard Charge:** For batteries with capacities between 30 Ah and 160 Ah.
 - **Fast Charge:** For batteries with capacities between 50 Ah and 225 Ah.
2. **Monitor Charging:** The ampere meter will indicate the charging current. As the battery charges, the current will gradually decrease.
3. **Charging Completion:** Charging is complete when the ampere meter reads near zero or a very low current, indicating the battery is fully charged.
4. **Disconnect:** Once charging is complete, first unplug the charger from the mains power outlet, then disconnect the BLACK negative (-) clamp, followed by the RED positive (+) clamp.

5.2. Starter Assist (180 AMP)

This function provides a temporary high current boost to help start a vehicle with a discharged battery.

1. **Ensure Connections:** Verify the battery clamps are correctly and securely connected to the vehicle battery terminals.
2. **Select Start Function:** Set the selector switch to the 'START' position (180 AMP).
3. **Attempt Start:** Try to start the vehicle. Do not crank the engine for more than 5 seconds at a time. Wait at least 1 minute between attempts to allow the charger to cool.
4. **Disconnect:** Once the vehicle starts, immediately unplug the charger from the mains power outlet, then disconnect the BLACK negative (-) clamp, followed by the RED positive (+) clamp.

Note: The starter assist function is for short-term use only. Prolonged use can damage the charger or battery.

6. MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your charger.

- **Cleaning:** Disconnect the charger from power and battery before cleaning. Wipe the casing with a dry cloth. Do not use solvents or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep it away from moisture and direct sunlight.
- **Cable Inspection:** Regularly inspect the power cord and battery cables for any signs of damage, cuts, or

fraying. Replace damaged cables immediately.

- Fuse Replacement:** The charger is equipped with a self-resetting thermal circuit breaker and a fuse. If the fuse blows, replace it with one of the same type and rating. Refer to the specifications for fuse details.

7. TROUBLESHOOTING

If you encounter issues with your Absaar N/E AmpM SH180 charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not turning on / No power	No mains power; Blown fuse; Damaged power cord.	Check power outlet; Replace fuse (if applicable); Inspect power cord for damage.
Battery not charging / Low ampere reading	Poor connection to battery; Incorrect charging mode selected; Severely discharged battery; Faulty battery.	Ensure clamps are securely connected; Select appropriate charging mode; Allow more time for charging; Have battery tested by a professional.
Overheating	Insufficient ventilation; Prolonged use of starter function.	Ensure adequate airflow around the charger; Allow charger to cool down between starter attempts.
Starter function not working	Battery too low; Poor connections; Overload protection activated.	Ensure battery has some residual charge; Check all connections; Allow charger to cool.

If the problem persists after attempting these solutions, contact customer support or a qualified technician.

8. SPECIFICATIONS

Feature	Specification
Brand	Absaar
Model	N/E AmpM SH180
Item Model Number	2222500
Output Voltage	12 Volts (DC)
Current Rating	22 A
Charge Type	Standard (Switchable)
Battery Capacity (Standard Charge)	30 Ah - 160 Ah
Battery Capacity (Fast Charge)	50 Ah - 225 Ah
Starter Function	180 Amperes

Feature	Specification
Protection Features	Reverse polarity, Short circuit, Overload, Self-resetting thermal circuit breaker, Fuse
Electrical Test Isolation Voltage	4 KV
Compliant Specifications	CE
Product Dimensions (L x W x H)	22.5 x 36.5 x 18 cm
Item Weight	8.33 Kilograms

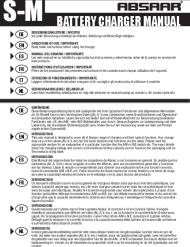
9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact your retailer. Keep your proof of purchase for warranty claims.

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Related Documents - N/E AmpM SH180

	<p>ABSAAR 15 Amp 12V NE LED LA3 Battery Charger Technical Specifications</p> <p>Detailed technical specifications and features for the ABSAAR 15 Amp 12V NE LED LA3 battery charger, including voltage, current, capacity, and operational indicators.</p>
	<p>ABSAAR PRO 4.0 Li Battery Charger - User Manual and Technical Specifications</p> <p>Official user manual for the ABSAAR PRO 4.0 Li battery charger. Provides detailed information on features, safety precautions, technical specifications, charging modes, error indicators, and warranty for 6V/12V lead-acid, gel, AGM, and 12V LifePo4 batteries.</p>
	<p>ABSAAR S-M Battery Charger Manual - User Guide</p> <p>Detailed user manual for the ABSAAR S-M Battery Charger, covering safety instructions, product features, operation, maintenance, and warranty. Includes guidance on charging types, connections, LED indicators, fuse replacement, and jump-start functionality.</p>

	<p>Absaar S-M Battery Charger Manual</p> <p>This manual provides comprehensive instructions for the Absaar S-M battery charger, covering safety precautions, operating procedures, and maintenance. It details how to connect, charge, and maintain batteries using the Absaar charger, including information on different charging modes, indicators, and troubleshooting.</p>
	<p>Absaar Battery Charger Manual - S-M Series</p> <p>Comprehensive user manual for Absaar S-M series battery chargers, covering operation, safety, maintenance, and troubleshooting. Includes multilingual instructions and technical specifications.</p>
	<p>ABSAAR 15 Amp 12V NE LED LA3 Battery Charger Technical Specifications</p> <p>Detailed technical specifications and features for the ABSAAR 15 Amp 12V NE LED LA3 battery charger, including voltage, current, capacity, and operational indicators.</p>