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EXTRALINK 30813

Extralink Shango Smart Battery Charger User Manual

Model: 30813

1. Important Safety Instructions

Please read and understand all safety information before operating this battery charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Polarity Protection:** The charger is designed with reverse polarity protection. Ensure correct connection to battery terminals (red to positive, black to negative).
- **Short Circuit Protection:** The device includes protection against output short circuits.
- **No-Battery Connection Protection:** The charger is protected against connection without a battery.
- **Overvoltage Protection:** Built-in protection against overvoltage.
- **Overheating Protection:** The charger is equipped with overheating protection.
- Use the charger in a well-ventilated area.
- Do not expose the charger to rain or excessive moisture.
- Keep out of reach of children.
- Disconnect the AC power before making or breaking connections to the battery.



Image 1.1: The Extralink Shango Smart Battery Charger features multiple layers of protection, including polarity, short circuit, no-battery connection, overvoltage, and overheating safeguards, ensuring safe operation.

2. Product Overview

The Extralink Shango Smart Battery Charger is an intelligent, microprocessor-controlled device designed for charging 12V and 24V batteries. It features an automatic charging current adjustment based on battery capacity and condition, and a digital display for real-time monitoring.



Image 2.1: The Extralink Shango Smart Battery Charger, showing its compact design, digital display, and included charging accessories.

2.1 Key Features

- **Digital Display:** Illuminated LCD display shows real-time battery voltage, charging current, temperature, and charging status.
- **Automatic Charging:** Processor-controlled automatic charging current adjustment.
- **Wide Compatibility:** Suitable for 12V and 24V lead-acid, AGM, Gel, and LiFePO4 batteries.
- **Multi-level Protection:** Includes reverse polarity, short circuit, overvoltage, overload, overheating, and no-battery connection protection.
- **Built-in Fan:** For efficient heat dissipation during operation.



Image 2.2: The illuminated LCD display provides essential real-time information about the charging process, including battery voltage, current, and charge level.



Image 2.3: The charger is compatible with a wide range of battery types, including lead-acid, AGM, Gel, and LiFePO4, making it versatile for various vehicles.



Image 2.4: The Extralink Shango Smart Battery Charger is suitable for a wide array of 12V and 24V applications, including cars, motorcycles, boats, and other vehicles.

3. Setup and Connection

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush and a baking soda solution.
2. **Connect the Charger to the Battery:**
    - Connect the **red (+)** positive clamp to the positive terminal of the battery.
    - Connect the **black (-)** negative clamp to the negative terminal of the battery.
    - For in-vehicle charging, connect the negative clamp to the vehicle chassis away from the battery and fuel line.
3. **Connect to Power:** Plug the charger's AC power cord into a standard 100-240VAC, 50-60Hz electrical outlet.
4. The charger will automatically detect the battery voltage (12V or 24V) and display the current status.

4. Operating Instructions

4.1 Selecting Charging Mode

The charger typically operates in an automatic mode, detecting the battery type and condition. However, you may need to manually select a mode for specific battery types or conditions.

- Press the **"MODE"** button (if available on your model) to cycle through different charging modes (e.g., AGM, CAR, MOTO, LiFePO4, REPAIR).
- Select the mode that matches your battery type for optimal charging.

4.2 Charging Process

1. Once connected and powered on, the charger will begin the charging process. The digital display will show real-time information such as voltage, current, and charge percentage.
2. The charger will automatically adjust the charging current and voltage through its multi-stage charging process to optimize battery health and charge efficiency.
3. When the battery is fully charged, the charger will typically switch to a maintenance or float charge mode to prevent overcharging. The display will indicate a full charge.
4. To disconnect, first unplug the AC power cord from the outlet, then remove the negative (-) clamp, followed by the positive (+) clamp.



Image 4.1: The charger is designed to operate effectively across a wide temperature range, from -5°C to +65°C.

5. Maintenance

- **Cleaning:** Keep the charger clean and dry. Wipe the casing with a soft, damp cloth. Do not use solvents or abrasive cleaners.
- **Cable Inspection:** Regularly inspect the charging cables and clamps for any signs of damage, fraying, or corrosion. Replace if damaged.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are neatly coiled.
- **Ventilation:** Ensure the charger's ventilation openings are not blocked to allow for proper heat dissipation. The built-in fan assists in cooling.



Image 5.1: The integrated fan ensures efficient cooling and prevents overheating during extended operation.

6. Troubleshooting

Problem	Possible Cause	Solution
Charger does not turn on.	No power from outlet; faulty connection.	Check AC power connection; test outlet with another device.
Charger shows error or does not charge.	Incorrect battery connection (reverse polarity); battery too deeply discharged; battery fault.	Verify correct polarity (+ to +, - to -); ensure battery voltage is above minimum start voltage (8.0V); have battery tested by a professional.
Charger gets hot.	Normal during charging; poor ventilation; prolonged high current charging.	Ensure adequate ventilation around the charger; the built-in fan should manage heat. If excessively hot, disconnect and allow to cool.

Problem	Possible Cause	Solution
Display is not working correctly.	Software glitch; internal fault.	Disconnect from power and battery, then reconnect. If issue persists, contact support.

7. Specifications

Feature	Specification
Model Number	30813
Input Voltage	100-240V AC, 50-60Hz
Output Voltage / Current	12V 12A; 24V 6A
Minimum Start Voltage	8.0V
Compatible Battery Types	Lead-acid, AGM, Gel, LiFePO4
Dimensions (L x W x H)	170 x 100 x 65 mm (approx. 6.7 x 3.9 x 2.6 inches)
Weight	Approx. 820 g (1.8 lbs)
Operating Temperature	-5°C to +65°C



Image 7.1: Physical dimensions and key electrical specifications of the Extralink Shango Smart Battery Charger.

8. Warranty and Support

The Extralink Shango Smart Battery Charger comes with a**36-month warranty** from the date of purchase. This warranty covers manufacturing defects and material faults under normal use.

For technical support, warranty claims, or any questions regarding your product, please contact your retailer or the Extralink customer service department.

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