XS Power LI1225

XS Power Li1225 Lithium Ion Battery Charger User Manual

Model: LI1225 | Brand: XS Power

Introduction

The XS Power Li1225 is an advanced 12 Volt, 25 AMP lithium ion battery charger designed for high-performance 12V or 16V lithium ion batteries. This charger integrates a High Frequency MOSFET rectified assembly with an advanced microprocessor control board to ensure rapid and safe recharging.

Key features include:

- 12V High Frequency Lithium Ion IntelliCHARGER, 25A output.
- Advanced microprocessor control for optimum charging performance.
- Automatic computer analysis and auto-shutdown features for safety and battery protection.
- Durable, UL Approved battery cables with copper plated clamps for secure connections.
- Internal cooling fan for maintaining optimal operating temperature.

Safety Information

Read all instructions and cautionary markings on the battery charger, battery, and product using the battery before use. Failure to do so may result in property damage, injury, or death.

- **WARNING:** This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- Ensure proper ventilation during charging.
- Do not expose the charger to rain or excessive moisture.
- Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged.
- Always disconnect the charger from the power outlet before attempting any maintenance or cleaning.
- Keep out of reach of children.

Product Overview

The XS Power Li1225 charger features a robust design with essential components for efficient battery charging.



Figure 1: Front view of the XS Power Li1225 charger with attached battery cables and clamps. The charger unit is silver with black branding, and the cables are black with red and black clamps.



Figure 2: Top view of the XS Power Li1225 charger, highlighting the model number and 25A rating. The unit is compact and designed for easy portability.

The charger unit is equipped with:

- **AC Input Connections:** 5.0’ (1.5 m) AWG 16 cable for connecting to a power outlet.

- **DC Output Connections:** 4.0’ (1.5 m) AWG 8 cables with copper plated battery clamps for connecting to the battery terminals.

Setup

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush and baking soda solution.
2. **Connect to Battery:**
    - Connect the RED positive (+) charger clamp to the positive (+) terminal of the battery.
    - Connect the BLACK negative (-) charger clamp to the negative (-) terminal of the battery.
    - Ensure connections are secure to prevent arcing.
3. **Connect to Power:** Plug the charger's AC input cable into a standard 120V AC electrical outlet.

Note: The charger may not recognize a battery if its voltage is below 4V and will not initiate charging in such cases.

Operating Instructions

Once properly connected, the XS Power Li1225 charger will begin its charging process automatically.

- **Automatic Computer Analysis:** Upon connection, the microprocessor will analyze the battery's condition.
- **Voltage Monitoring:** The battery's terminal voltage is measured every five minutes by the on-board microprocessors. This data, along with elapsed time, is used to dynamically control the charger for optimal performance.
- **Charging Process:** The charger will deliver a 25 AMP charge to rapidly and safely recharge the lithium ion battery.
- **Automatic Shutdown:** If the battery does not reach the correct voltage within a ten-hour period, the microprocessor control board will automatically shut the charger off to prevent overcharging or damage.

Monitor the charging process and disconnect the charger once the battery is fully charged or if any unusual conditions are observed.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your XS Power Li1225 charger.

- **Cleaning:** Disconnect the charger from all power sources and batteries before cleaning. Wipe the exterior with a soft, dry cloth. Do not use harsh chemicals or abrasives.
- **Cable Inspection:** Regularly inspect the battery cables and clamps for any signs of damage, cuts, or corrosion. Replace if necessary.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep it away from direct sunlight, extreme temperatures, and moisture.

Troubleshooting

This section addresses common issues you might encounter with your XS Power Li1225 charger.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Charger does not start charging.	Battery voltage is below 4V.	The charger is designed not to recognize batteries below 4V. Attempt to pre-charge the battery with a specialized low-voltage recovery charger if available, or consult a professional.
Charger shuts off during charging.	Battery not reaching correct voltage within 10 hours.	This is an automatic safety shutdown. The battery may be faulty or severely discharged. Have the battery inspected by a professional.
No power to charger.	AC power cord not properly plugged in or outlet is dead.	Ensure the AC power cord is securely plugged into a live electrical outlet. Check the circuit breaker if necessary.
Loose or corroded battery connections.	Poor contact between clamps and battery terminals.	Clean battery terminals and ensure clamps are securely attached to the correct polarity.

Specifications

Feature	Detail
Model	LI1225
Input Voltage	Standard AC (not explicitly stated, but implied 120V from context)
Output Voltage	12 Volts
Output Current	25 AMP
AC Input Cable	5.0’ (1.5 m) AWG 16
DC Output Cables	4.0’ (1.5 m) AWG 8
Dimensions (W x H x D)	9.125” x 2.875” x 4.75” (231.8mm x 73mm x 120.7mm)
Weight	5 lbs (2.27 kg)
Color	Silver
First Available Date	May 10, 2016

Warranty and Support

To ensure full product protection and expert support, it is crucial to purchase XS Power products from an authorized dealer. Every product is tracked by serial number, and purchases from unauthorized sellers will void your product protection.

For additional support or to locate an authorized dealer, please visit the official XS Power website or contact their customer service.

Protection plans may be available for extended coverage:

- 2-Year Protection Plan
- 3-Year Protection Plan

- Complete Protect (monthly billing option)

For details on these plans, refer to your purchase documentation or the retailer's website.

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For more information, visit xspowerbatteries.com

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Question

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.

Submit question