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› SAKO Hybrid Solar Power Inverter and LiFePO4 Battery User Manual (Li-SUN 100Ah 25.6V)

SAKO Li-SUN 100Ah 25.6V

SAKO Hybrid Solar Power Inverter and LiFePO4 Battery User Manual

Model: Li-SUN 100Ah 25.6V

INTRODUCTION

This manual provides essential information for the safe and efficient use of your SAKO Hybrid Solar Power Inverter and LiFePO4 Lithium-Ion Battery. This system is designed to provide reliable solar energy storage for your home, ensuring continuous power supply.

The SAKO LiFePO4 battery features high-quality CATL cells, offering over 6000 charge cycles, a 5-year warranty, and a design life exceeding 10 years. Its compact, space-saving design with high energy density makes it lightweight yet robust for seamless integration into various solar systems. The system supports high charge/discharge currents, optimized for hybrid solar inverters and rapid power transfer.

An optional smart BMS (Battery Management System) ensures compatibility with multiple inverter brands and provides real-time monitoring via an LCD screen and CAN/RS485/RS232 ports. It includes multi-layered safety protections such as overcharge/discharge, short circuit, and thermal protection for safe 24/7 operation.



WHOLE-HOME BACKUP POWER SOLUTION

Smart technology, long-lasting reliability,
and ultimate power security.



Image: The SAKO Hybrid Solar Power Inverter and LiFePO4 Battery system, illustrating a whole-home backup power solution.

SETUP AND INSTALLATION

Proper installation is crucial for the safety and performance of your SAKO solar power system. It is highly recommended that installation be performed by a qualified electrician or solar professional.

Unpacking and Inspection

- Carefully unpack all components and verify against the packing list.
- Inspect for any physical damage that may have occurred during transit. Report any damage immediately to your supplier.
- Ensure all included components, such as the connection cable, are present.

Mounting Options

The LiFePO4 battery offers versatile installation options to suit your home space, including floor stand and wall-mounted configurations. Choose a location that is dry, well-ventilated, and away from direct sunlight or extreme temperatures.

Versatile Installation Options for Home Space!



Image: Two SAKO LiFePO4 batteries demonstrating versatile installation options: one on a floor stand and another wall-mounted.

Electrical Connections

- Connect the battery to the hybrid solar inverter using the provided cables. Ensure correct polarity.
- Establish communication between the battery's BMS and the inverter using the CAN/RS485/RS232 ports. Refer to your inverter's manual for specific communication protocols (compatible with Growatt, SMA, Deye, Goodwe, etc.).
- Verify all connections are secure before powering on the system.

OPERATING INSTRUCTIONS

Once installed and connected, your SAKO solar power system is ready for operation. The system is designed for intelligent and efficient power management.

System Activation

- Follow the startup procedure outlined in your hybrid solar inverter's manual.
- The battery's LCD screen will display operational status, including voltage, current, and state of charge.

Monitoring and Control

The smart BMS allows for effortless control and monitoring of your power system. You can connect via WiFi to adjust settings and monitor usage from anywhere.



Image: A SAKO LiFePO4 battery alongside a smartphone displaying a mobile application for monitoring power usage and system status.

Power Delivery

The system is capable of powering almost all your home appliances, supporting high capacity power delivery with maximum charge/discharge currents of 100A/200A, depending on the specific model (e.g., 100Ah, 200Ah, 300Ah).

POWERS ALMOST ALL YOUR APPLIANCES

Li-Sun Series Lithium Battery Powering Homes & Businesses Up to 18kWh

High-Capacity LiFePO4 Up to 18kWh



Image: An illustration showcasing different capacities of SAKO LiFePO4 batteries, including 51.2V 350Ah, 51.2V 200Ah, 51.2V 100Ah, and 51.2V 300Ah models.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your SAKO solar power system.

Routine Checks

- Periodically inspect all cables and connections for signs of wear, corrosion, or looseness.
- Ensure the ventilation openings on the battery and inverter are clear of obstructions.
- Monitor the system's performance via the LCD screen or mobile app for any unusual readings.

Cleaning

- Keep the exterior of the battery and inverter clean using a soft, dry cloth.
- Do not use liquid cleaners or solvents, as they may damage the components.

Battery Health

- The integrated BMS actively manages battery health. Avoid deep discharges and prolonged storage in a fully discharged state.
- For optimal lifespan, operate the battery within its recommended temperature range.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For complex problems, contact technical support.

No Power Output

- **Check Connections:** Ensure all cables between the battery, inverter, and load are securely connected.
- **Battery State of Charge:** Verify the battery has sufficient charge. If low, check solar panel input or grid connection for charging.
- **Inverter Status:** Check the inverter's display for error codes or status indicators. Refer to the inverter manual.

BMS Error Indication

- **Overcharge/Over-discharge:** The BMS may trigger protection if the battery is overcharged or over-discharged. The system should automatically recover once conditions normalize.
- **Temperature Protection:** If the battery temperature is too high or too low, the BMS will activate protection. Move the system to a suitable environment.
- **Short Circuit:** A short circuit will cause the BMS to cut off power. Identify and resolve the short circuit before restarting.

Inconsistent Performance

- **Communication Issue:** Ensure the communication cable between the battery and inverter is properly connected and configured.
- **Load Management:** Verify that the connected load does not exceed the system's capacity.

SPECIFICATIONS

Feature	Detail
Manufacturer	SAKO
Model Number	Li-SUN 100Ah 25.6V
Shipping Dimensions	95 x 69 x 37 cm
Item Weight	48 Kilograms
ASIN	B0FMF6C1QH
Recommended Uses	Home
Power Source	Solar Powered
Electric Power	1.2 Kilowatts
Battery Capacity	100 Ampere Hours
Voltage	25.6 Volts

Feature	Detail
Color	White
Included Components	Cable

WARRANTY INFORMATION

The SAKO LiFePO4 battery comes with a **5-year warranty**, ensuring peace of mind regarding its performance and durability. The product is designed for a service life of over 10 years, reflecting its robust construction and high-quality components.

Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects and material faults under normal use conditions. It does not cover damage caused by improper installation, misuse, neglect, or unauthorized modifications.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact SAKO customer support.

- **Website:** Visit the official SAKO website for support resources and contact information.
- **Email:** Refer to your product packaging or the official website for the customer support email address.
- **Phone:** Contact numbers may vary by region. Please check the SAKO website for local support details.

When contacting support, please have your product model number (Li-SUN 100Ah 25.6V) and ASIN (B0FMF6C1QH) ready.