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JJENXYYDS 6200W

JJENXYYDS Solar Hybrid Inverter 6200W User Manual

Model: 6200W

1. Introduction

This manual provides essential information for the safe and efficient operation of your JJENXYYDS Solar Hybrid Inverter 6200W. Please read this manual thoroughly before installation and use, and retain it for future reference. This inverter is designed to convert DC power from solar panels into AC power for household use, integrating a solar charger and AC charger for a comprehensive energy storage solution.

2. Safety Information

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel.

- Ensure all wiring is correctly connected and securely fastened before powering on the unit.
- Do not attempt to disassemble or repair the inverter yourself. Refer to qualified service personnel.
- Keep the inverter away from flammable materials, moisture, and direct sunlight.
- Ensure adequate ventilation around the inverter to prevent overheating.
- The inverter incorporates multiple protection features including overcurrent, overload, overvoltage, short circuit, reverse connection, and low voltage protection. However, proper installation is crucial for safety.

3. Product Overview

3.1 Key Features

- Pure sine wave output for stable and clean power.
- Integrated 120A MPPT solar charge controller.
- Compatible with grid or generator power.
- LCD display and LED indicators for system status.
- Adjustable charging current and priority settings.

- Multiple protection mechanisms: power failure alarm, overload, overcurrent, lightning, low voltage, short circuit, and reverse connection protection.
- Communication ports: RS232/WIFI/GPRS.

3.2 Components and Indicators

The inverter features various ports, indicators, and controls for comprehensive system management.



Figure 1: Inverter Product Display. This image illustrates the various connection points and user interface elements on the inverter, including the AC input/output, battery terminals, PV interface, communication port, LCD display, and function buttons.



Figure 2: RGB Indicator Light Effect. The inverter features an RGB indicator light that changes color to reflect the current operating mode: red for Battery Mode, blue for Utility Mode, and purple for PV Mode.

4. Setup and Installation

Proper installation is critical for the inverter's performance and safety. Consult a qualified electrician for installation if you are unsure.

4.1 Mounting

- Choose a dry, well-ventilated area, away from direct sunlight and heat sources.
- Ensure sufficient clearance around the inverter for airflow.
- Mount the inverter vertically on a sturdy surface using appropriate fasteners.

4.2 Wiring Connections

Follow the diagram below for correct wiring of solar panels, batteries, AC input (grid/generator), and AC output (loads).

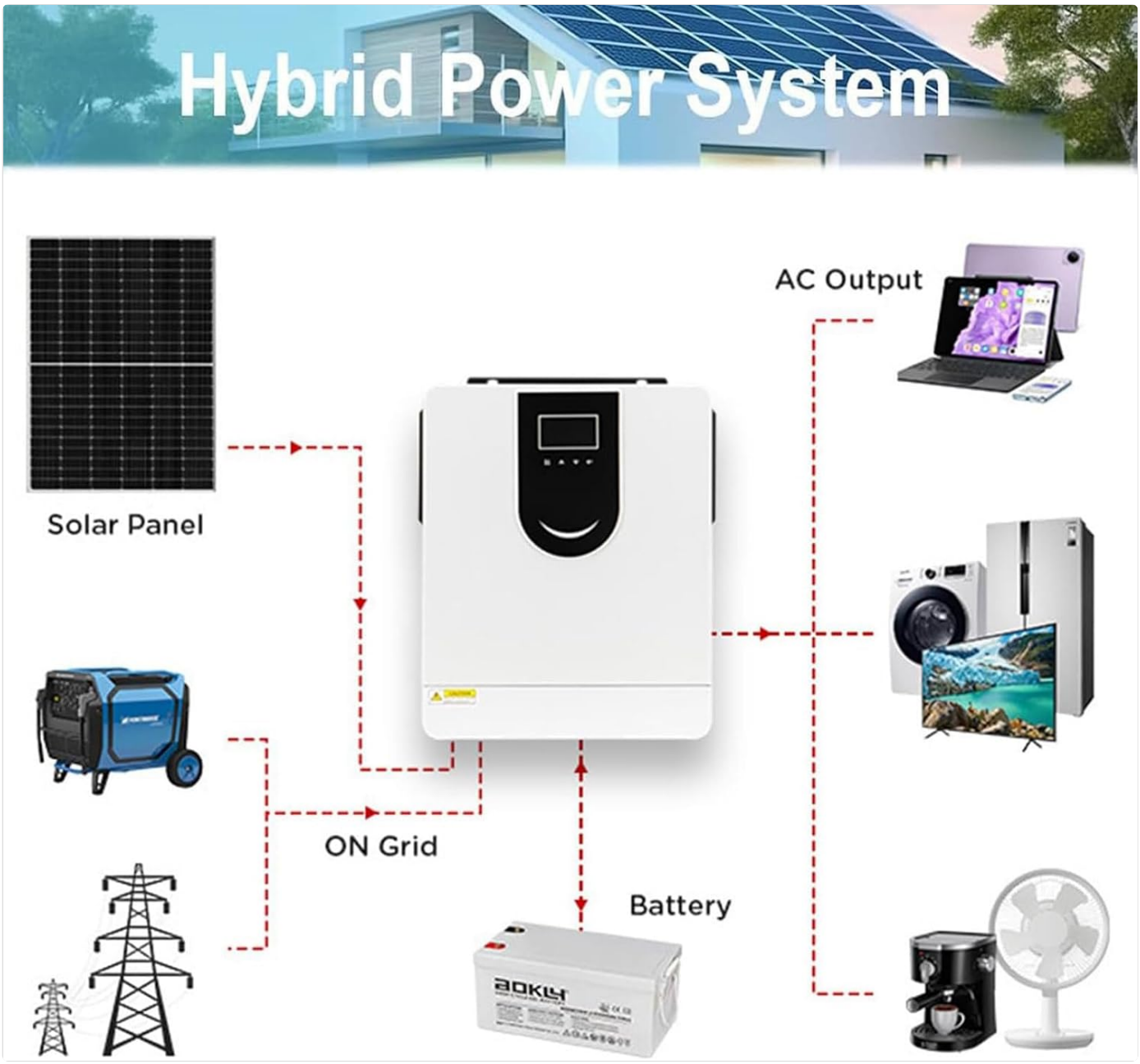


Figure 3: Hybrid Power System Connection Diagram. This diagram illustrates how the solar panels, inverter, battery bank, utility grid, and various household AC loads are interconnected in a typical hybrid solar power system.

1. **Battery Connection:** Connect the battery bank to the inverter's battery terminals, ensuring correct polarity (positive to positive, negative to negative).
2. **Solar Panel Connection:** Connect the solar panel array to the PV input terminals. Verify that the PV input voltage and current are within the inverter's specifications.
3. **AC Input Connection:** Connect the utility grid or generator to the AC input terminals.
4. **AC Output Connection:** Connect your household AC loads to the AC output terminals.
5. **Grounding:** Ensure the inverter is properly grounded according to local electrical codes.

IMPORTANT: Always ensure all power sources are disconnected before making or breaking any electrical connections.

5. Operating Instructions

5.1 Powering On/Off

1. **To Power On:** After all connections are secure, switch on the battery breaker, then the solar panel breaker (if applicable), and finally the AC input breaker. Turn on the inverter's main power switch. The LCD display will illuminate, and the inverter will begin its startup sequence.
2. **To Power Off:** Reverse the power-on sequence. First, turn off the inverter's main power switch, then the AC input breaker, followed by the solar panel breaker, and finally the battery breaker.

5.2 LCD Display and Settings

The LCD display provides real-time system data and allows for configuration of various parameters. Use the function buttons (refer to Figure 1) to navigate menus and adjust settings.

- **System Data:** View input/output voltage, current, frequency, battery status, and load percentage.
- **Charging Current:** Adjust the battery charging current from the solar charger and AC charger.
- **Charging Priority:** Set the charging source priority (e.g., Solar first, Utility first, Solar and Utility).
- **Output Priority:** Configure the output source priority (e.g., Utility first, Battery first, Solar first).

Refer to the detailed settings section in the full user manual for specific menu navigation and parameter adjustments.



Figure 4: Pure Sine Wave Output. This image visually represents the clean and stable pure sine wave output provided by the inverter, which is essential for sensitive electronic devices.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your inverter.

- **Cleaning:** Periodically clean the exterior of the inverter with a dry cloth. Ensure ventilation openings are free from dust and debris. Do not use liquid cleaners.
- **Connections:** Annually inspect all electrical connections for tightness and signs of corrosion. Tighten any loose connections.
- **Environment:** Ensure the installation environment remains within specified temperature and humidity ranges.
- **Battery Inspection:** If using lead-acid batteries, check electrolyte levels and terminal conditions as per battery manufacturer guidelines.

7. Troubleshooting

This section provides solutions to common issues. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Inverter does not power on	No battery connection; Battery voltage too low; Main switch off	Check battery connections; Charge battery; Turn on main switch
No AC output	Overload; Short circuit; Battery low; Inverter fault	Reduce load; Check for short circuits; Charge battery; Restart inverter
Solar charging not active	PV input voltage too low/high; PV connections incorrect; Insufficient sunlight	Check PV voltage; Verify PV wiring; Ensure clear sunlight exposure
Abnormal noise	Overload; Loose components; Fan obstruction	Reduce load; Check for loose parts; Clear fan vents

8. Specifications

Detailed technical specifications for the JJENXYYDS Solar Hybrid Inverter 6200W.

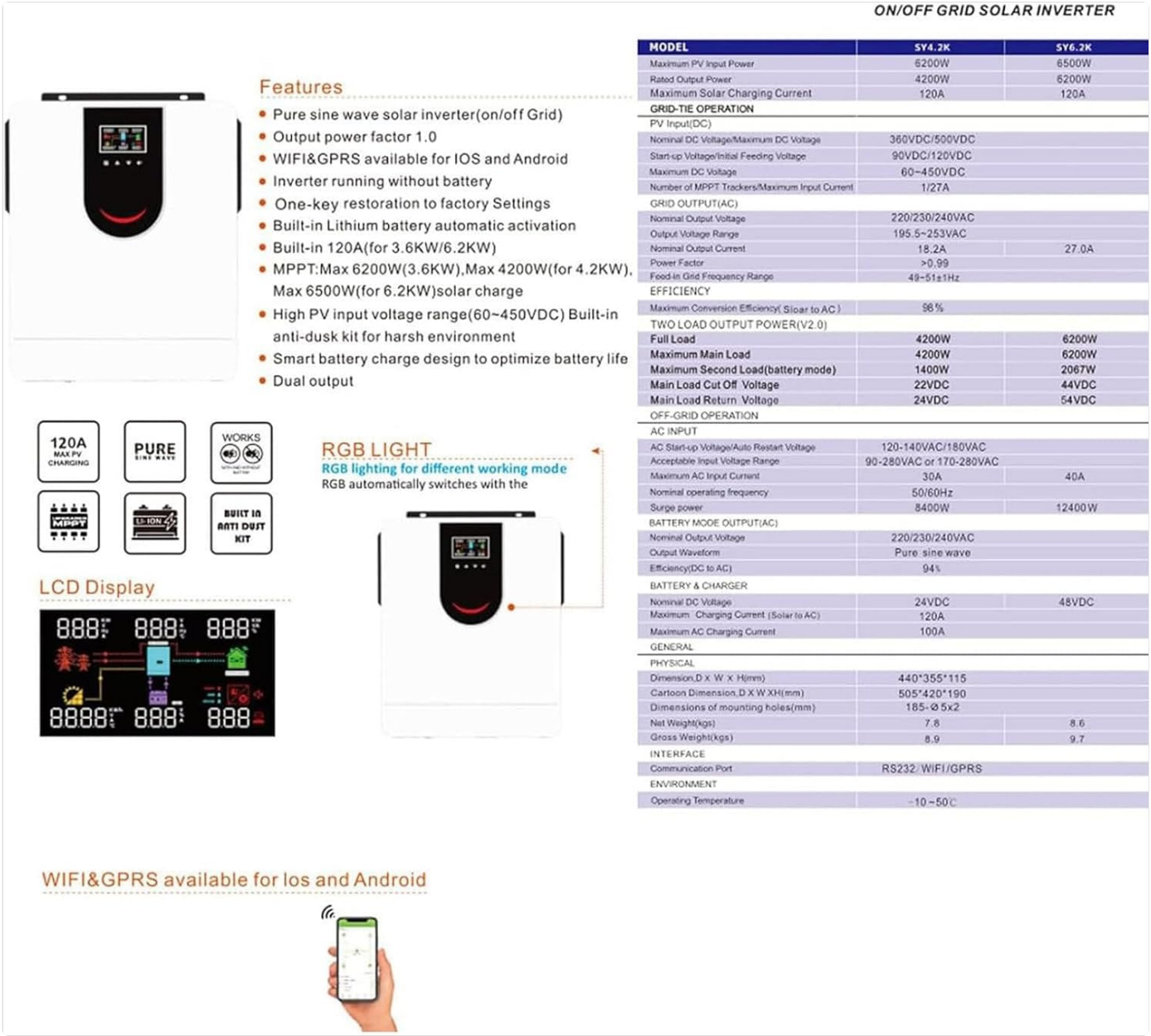


Figure 5: Inverter Specifications. This image provides a comprehensive table detailing the electrical and physical specifications of the 6200W solar hybrid inverter, including input/output voltages, currents, power ratings, and dimensions.

Parameter	Value
Model	6200W
Rated Output Power	6200W
Solar Charging Current	120A
Rated DC Voltage/Max DC Voltage (PV Input)	360VDC/500VDC
MPPT Voltage Range	60VDC~450VDC
Rated Output Voltage (AC)	220/230/240VAC
Rated Operating Frequency	50/60Hz
Surge Power	12400W
Output Waveform	Pure Sine Wave

Parameter	Value
Efficiency (DC to AC)	94%
Rated DC Voltage (Battery)	48V DC
Maximum AC Charging Current	100A
Product Size (L*W*H)	440*355*115mm
Weight	8.6kg
Communication Port	RS232/WIFI/GPRS



Figure 6: Inverter Dimensions. This image provides a visual representation of the physical dimensions of the 6200W solar inverter, indicating its height, width, and depth.

9. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your purchase or contact the seller directly. Keep your purchase receipt as proof of purchase.
For any questions or assistance, please contact JJENXYYDS customer service through the platform where the product was purchased or via the contact information provided in the product packaging.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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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.

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