

DATOUBOSS 48V6.2KW+48V628AH

DATOUBOSS 6200W 48V Hybrid Solar Inverter with 32.15kWh LiFePO4 Battery System

Model: 48V6.2KW+48V628AH

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1. INTRODUCTION

The DATOUBOSS Integrated Home Energy Storage System combines a powerful 48V 6200W hybrid inverter with a 48V 628Ah lithium iron phosphate battery, offering a total capacity of 32.15 kWh. This all-in-one unit simplifies installation by eliminating the need for separate inverter and battery purchases, along with complex wiring and communication setups. Designed for ease of movement, the unit features mobile pulleys at its base, making it suitable for various applications including home energy storage, off-grid solar installations, and emergency power supplies.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing, operating, or maintaining the DATOUBOSS Hybrid Solar Inverter and Battery System. Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

- **Qualified Personnel Only:** Installation and maintenance must be performed by qualified and trained personnel.
- **Electrical Hazard:** This unit operates at high voltages and currents. Do not open the unit or attempt any repairs.
- **Proper Grounding:** Ensure the system is properly grounded according to local electrical codes.
- **Environmental Conditions:** Avoid exposing the unit to water, moisture, direct sunlight, or extreme temperatures.
- **Flammable Materials:** Keep the unit away from flammable or combustible materials.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including insulated gloves and eye protection, when working with the system.
- **Emergency Shutdown:** Familiarize yourself with the emergency shutdown procedures for the system.

3. SETUP AND INSTALLATION

The DATOUBOSS Integrated Home Energy Storage System is designed for straightforward setup. Its all-in-one design minimizes complex wiring. The unit is equipped with mobile pulleys for easy positioning. Refer to the connection diagram for proper wiring of PV input, AC input, and AC output.

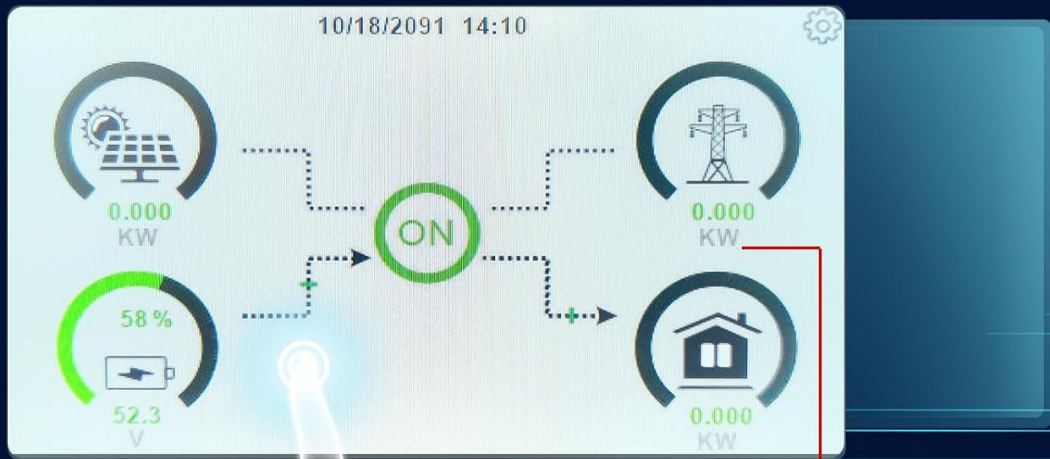


Figure 3.1: Control Panel and Connection Ports

This image illustrates the control panel and various connection ports on the DATOUBOSS system. Key components include the touch screen display, battery indicator lights, reset button, alarm indicator light, and operation indicator light. Below the main unit, the connection panel shows AC IN/ON/OFF switch, PV ON/OFF switches, ON/OFF Inverter switch, ON/OFF Battery switch, AC OUT ON/OFF switch, PV interfaces, AC input, and AC output ports. Ensure all connections are secure and correctly wired according to local electrical codes.

4. OPERATING INSTRUCTIONS

The system features a color touch screen for intuitive operation and monitoring. The display provides real-time information on power flow, battery status, and system alerts. Use the touch screen to navigate through settings such as Battery Setting, Grid Setting, and Charge Setting. The alert mode helps identify and resolve issues quickly. Detailed solutions for error codes are provided in the full manual.



This product has a color touch screen for easy operation, and can switch between multiple pages.

Compared with the old-fashioned buttons, the touch screen is smoother to use and has a longer service life.



Figure 4.1: Touch Screen Interface

The touch screen interface displays real-time system status, including solar power generation (0.000 kW), grid power (0.000 kW), and home consumption (0.000 kW). The battery charge level (58%) and voltage (52.3V) are also shown. The central 'ON' indicator confirms system operation. This user-friendly interface allows for easy monitoring and control of the energy flow.

Home Emergency Backup Power Supply

Automatic Power Switchover During Outages
Ensuring Power Supply During Critical Periods

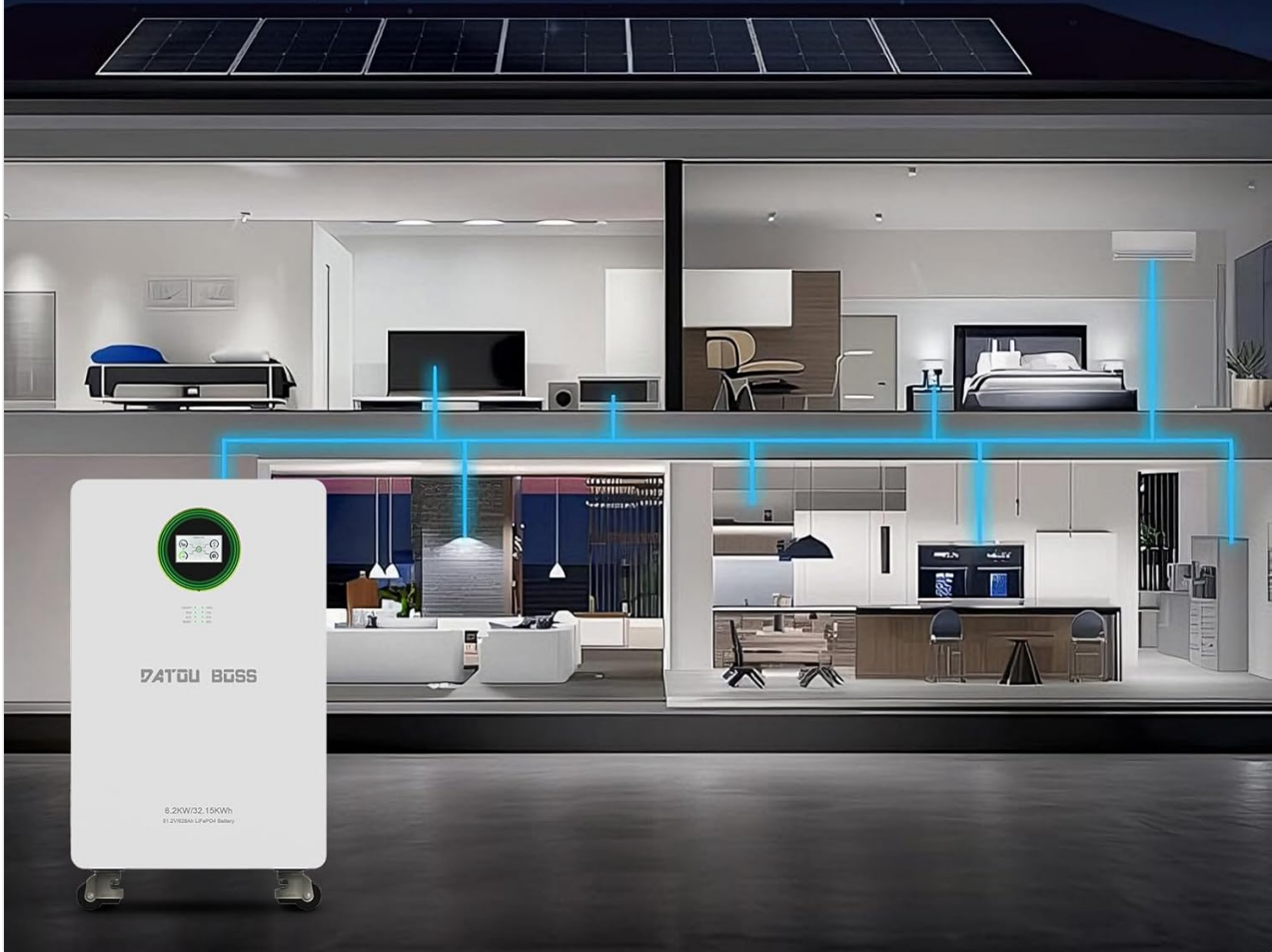


Figure 4.2: Home Emergency Backup Power Supply Diagram

This diagram illustrates the DATOUBOSS system integrated into a home as an emergency backup power supply. Solar panels on the roof feed into the system, which then powers the household loads. In the event of a grid outage, the system automatically switches to battery power, ensuring continuous electricity supply to critical appliances and lighting.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your DATOUBOSS system. Adhere to the following guidelines:

- **Cleaning:** Keep the unit clean and free from dust, dirt, and debris. Use a dry, soft cloth for cleaning.
- **Ventilation:** Ensure proper airflow and ventilation around the unit. Do not block cooling vents.
- **Connection Checks:** Periodically inspect all electrical connections for tightness, corrosion, or signs of wear. Tighten any loose connections.
- **System Monitoring:** Regularly monitor the system's performance via the LCD screen for any unusual readings, error messages, or abnormal behavior.
- **Battery Health:** While the integrated BMS manages battery health, avoid consistently deep discharging the battery to prolong its lifespan.

6. TROUBLESHOOTING


The integrated color touch screen provides an alert mode to assist in identifying and resolving operational issues. If error or warning codes appear, consult the detailed solutions provided in the comprehensive product manual. If self-resolution is not possible, contact professional technicians for assistance.

Common issues and their potential solutions may include:

- **No Power Output:** Check AC output switch, inverter status, and battery charge level.
- **No PV Input:** Verify PV ON/OFF switches, solar panel connections, and ensure sufficient sunlight.
- **Overload Warning:** Reduce connected load. The system may automatically shut down to prevent damage.
- **Battery Low Voltage:** Allow the battery to recharge from PV or AC input.
- **Temperature Warning:** Ensure adequate ventilation and ambient temperature is within operating limits.

7. TECHNICAL SPECIFICATIONS

The DATOUBOSS Integrated Home Energy Storage System offers robust performance and reliable energy management. Key technical specifications are detailed below.



DATOU BOSS

HOME ENERGY STORAGE ALL-IN-ONE MACHINE

48V 6200W Hybrid Inverter with 32.15kWh Battery Package

Battery Type: Lithium Iron Phosphate Battery 628Ah	PV inverter rated output power: 6500W
Battery capacity: 32.15KWh	Output voltage: 220/230/240VAC ±5%
Nominal voltage: 51.2V	Output frequency: 50/60Hz ±0.1%
PV input maximum power: 8500W	Waveform: pure sine wave
MPPT tracking range: 60-500VDC	Operating temperature: -10~50°C
Maximum PV input voltage: 500VDC	Noise level: <50 dB
Maximum PV input current: 27A	Weight: 239kg
Maximum charging current: 120A	Dimensions (length × width × Height): 550x541x928mm
Battery inverter rated output power: 62000W	

Figure 7.1: Product Overview and Specifications

This image provides a detailed overview of the DATOUBOSS Home Energy Storage All-in-One Machine, highlighting its 48V 6200W Hybrid Inverter with a 32.15kWh Battery Package. The table lists key specifications such as Battery Type (Lithium Iron Phosphate 628Ah), Battery Capacity (32.15kWh), Nominal Voltage (51.2V), PV Input Maximum Power (8500W), MPPT Tracking Range (60-500VDC), Maximum PV Input Current (27A), Maximum Charging Current (120A), Battery Inverter Rated Output Power (6200W), PV Inverter Rated Output Power (6500W), Output Voltage (220/230/240VAC $\pm 5\%$), Output Frequency (50/60Hz $\pm 0.1\%$), Waveform (Pure Sine Wave), Operating Temperature (-10~50°C), Noise Level (<50 dB), Weight (239kg), and Dimensions (550x541x928mm).

Feature	Specification
Brand	DATOUBOSS
Model Number	FBM-JC-6232-EU-1
Battery Type	Lithium Iron Phosphate (LiFePO4) 628Ah
Battery Capacity	32.15 kWh
Nominal Voltage	51.2V
PV Input Maximum Power	8500W
MPPT Tracking Range	60-500VDC
Maximum PV Input Current	27A
Maximum Charging Current	120A
Battery Inverter Rated Output Power	6200W
PV Inverter Rated Output Power	6500W
Output Voltage	220/230/240VAC $\pm 5\%$
Output Frequency	50/60Hz $\pm 0.1\%$
Waveform	Pure Sine Wave
Operating Temperature	-10~50°C
Noise Level	<50 dB
Weight	239 Kilograms
Dimensions (L x W x H)	550 x 541 x 928 mm

8. WARRANTY AND SUPPORT

DATOUBOSS provides a 5-year warranty for this integrated system, ensuring product quality and reliability. Professional 24-hour customer service is available to address any product-related inquiries. An English instruction manual is included with purchase. Electronic manuals in various languages are available upon request through Amazon's backend messaging system.



Figure 8.1: Warranty and Support Overview

This image highlights the DATOUBOSS commitment to customer satisfaction, including a 5-year product guarantee and 24-hour customer response for support.

For further assistance, please contact DATOUBOSS customer service through the platform where you purchased the product.