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## DATOUBOSS JC-1115

# DATOUBOSS Hybrid UPS Uninterruptible Power Supply User Manual

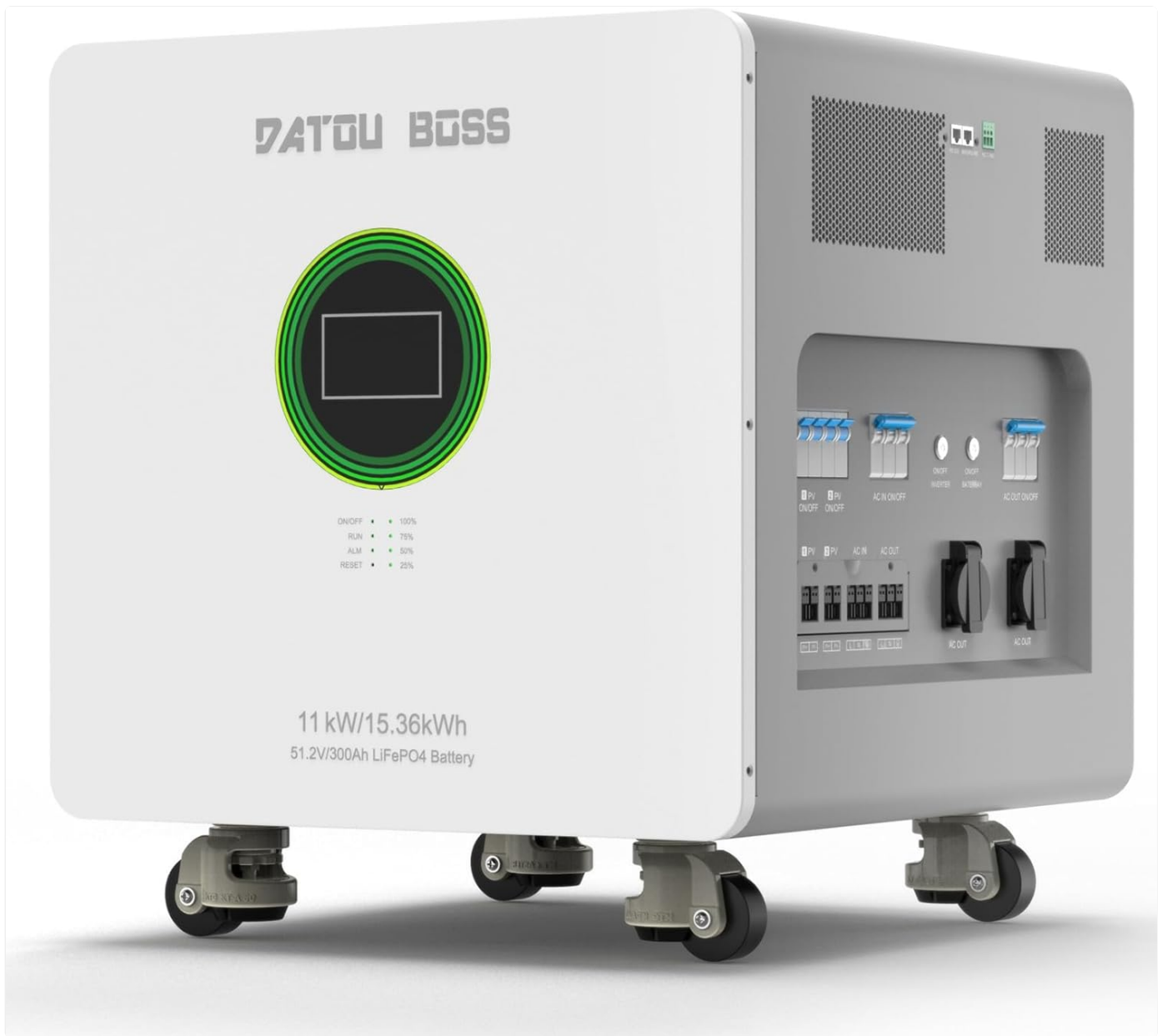
Model: JC-1115

## PRODUCT OVERVIEW

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The DATOUBOSS Hybrid UPS is an integrated power solution designed for off-grid and grid-tied energy storage systems. It combines an Uninterruptible Power Supply (UPS), a solar inverter, and a high-capacity LiFePO4 battery into a single unit, providing reliable backup power and efficient energy management.

This system features an 11kW AC output power and a 15.36kWh LiFePO4 battery with a 51.2V 300Ah capacity, ensuring long-lasting and stable power delivery. It includes dual MPPT solar inputs, each capable of handling up to 5500W, for maximum solar energy harvesting.



**Figure 1:** Front and side view of the DATOUBOSS Hybrid UPS Uninterruptible Power Supply. The unit is white and grey, featuring a circular display on the front panel and various input/output ports and circuit breakers on the side. It is equipped with casters for mobility.

## SAFETY INSTRUCTIONS

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- Read all instructions before installation and operation.
- Ensure proper grounding of the unit.
- Do not open the unit; there are no user-serviceable parts inside. Refer servicing to qualified personnel.
- Keep the unit away from water, excessive heat, and direct sunlight.
- Ensure adequate ventilation around the unit to prevent overheating.
- Use appropriate personal protective equipment (PPE) during installation and maintenance.

## SETUP

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### Unpacking and Inspection

Carefully unpack the unit and inspect it for any signs of damage during transit. Report any damage to your supplier immediately.

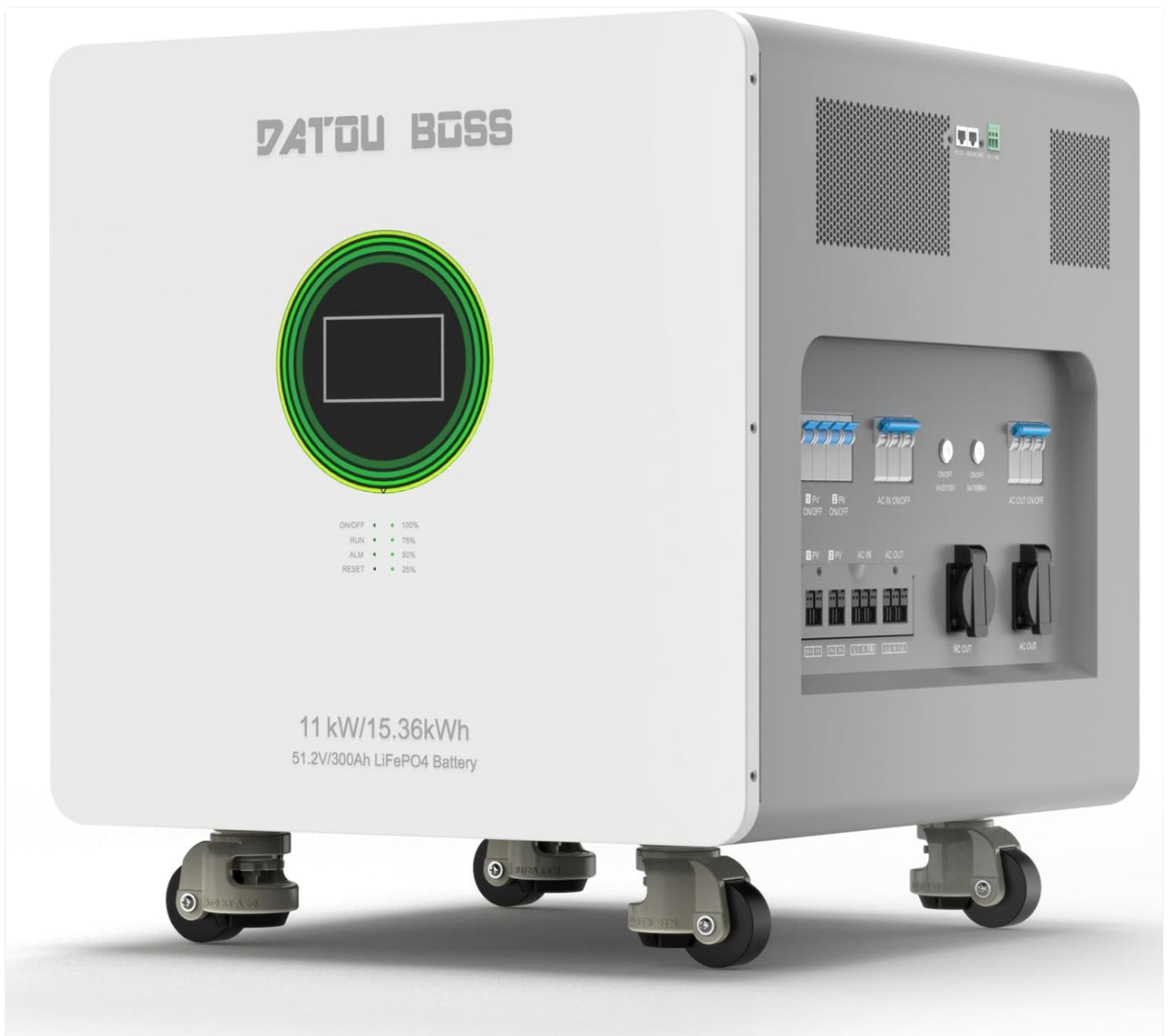
## Placement

Place the UPS in a cool, dry, and well-ventilated area. Avoid locations with high humidity, dust, or corrosive substances. Ensure sufficient clearance around the unit for airflow.

## Connections

Refer to the connection diagram below for proper wiring. All wiring should be performed by a qualified electrician.

1. **AC Input Connection:** Connect the main AC power supply to the "AC IN" terminals. Ensure the input voltage matches the unit's specifications (220/230/240VAC).
2. **AC Output Connection:** Connect your loads (appliances, systems) to the "AC OUT" terminals.
3. **PV Input Connection:** Connect your solar panels to the "PV" input terminals. Observe correct polarity (+/-). The unit supports dual MPPT inputs.
4. **Battery Connection:** The LiFePO<sub>4</sub> battery is integrated. No external battery connection is required.
5. **Grounding:** Connect the unit to a reliable earth ground.



**Figure 2:** Close-up view of the connection ports and circuit breakers on the side of the DATOUBOSS Hybrid UPS. Visible labels include "PV ON/OFF", "AC IN ON/OFF", "INVERTER ON/OFF", "BATTERY ON/OFF", and "AC OUT ON/OFF" for various circuit breakers. Below these are terminals for PV input, AC input, and AC output, along with two AC output sockets.

# OPERATING INSTRUCTIONS

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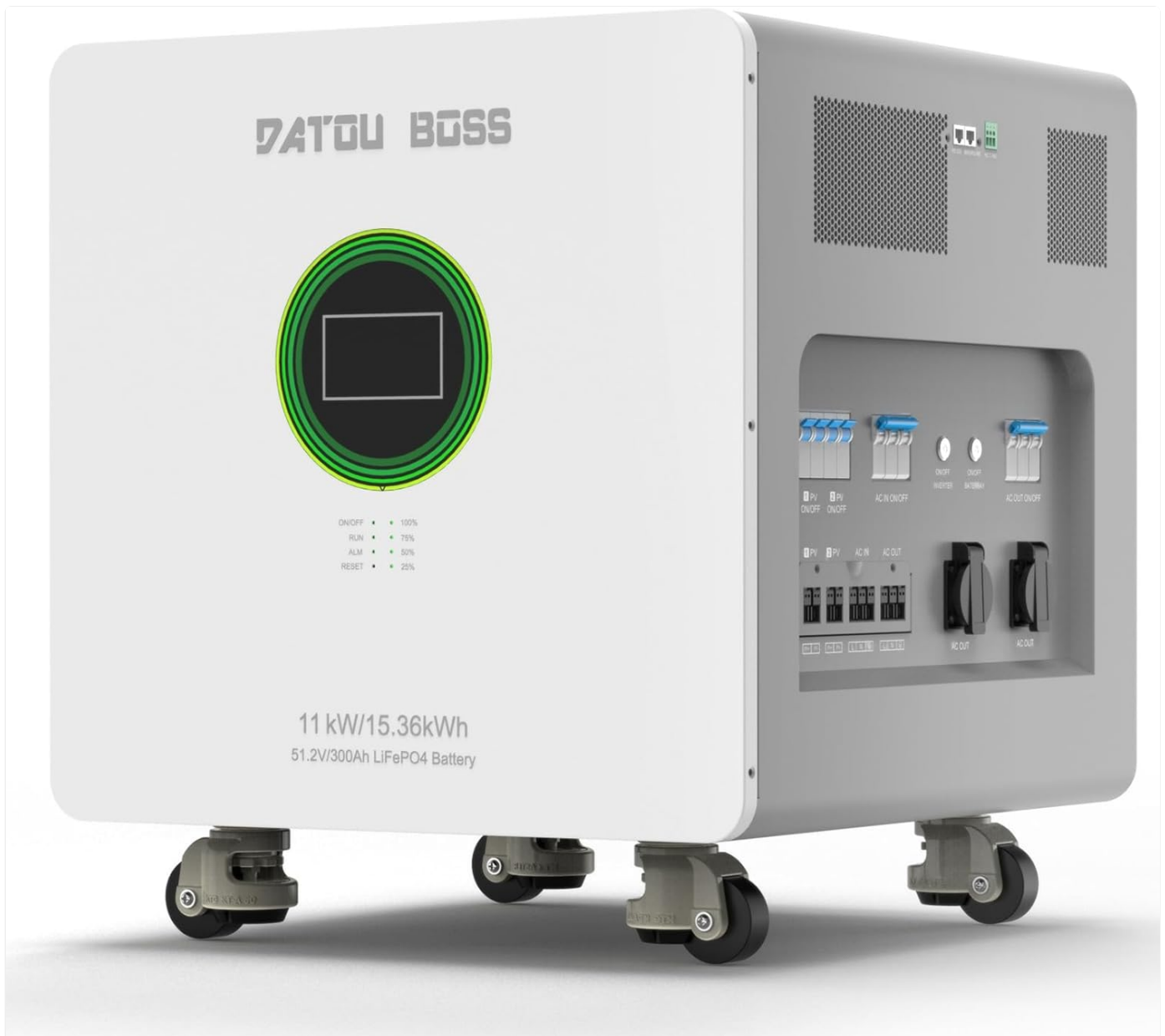
## Powering On

1. Ensure all connections are secure and correct.
2. Turn on the "PV ON/OFF" circuit breakers if solar input is desired.
3. Turn on the "AC IN ON/OFF" circuit breaker to supply grid power to the unit.
4. Turn on the "INVERTER ON/OFF" switch.
5. Turn on the "BATTERY ON/OFF" switch.
6. Finally, turn on the "AC OUT ON/OFF" circuit breakers to supply power to your connected loads.

## Display and Indicators

The front panel features a circular display and indicator lights providing system status.

- **ON/OFF:** Indicates the power status of the unit.
- **RUN:** Indicates the system is operating normally.
- **ALM (Alarm):** Illuminates when an error or warning condition is detected. Refer to the Troubleshooting section.
- **RESET:** Button or indicator for system reset.
- **Battery Level Indicators:** 100%, 75%, 50%, 25% indicate the approximate charge level of the internal battery.



**Figure 3:** Close-up view of the front panel display and indicators on the DATOUBOSS Hybrid UPS. The circular display shows system information, and LED indicators for ON/OFF, RUN, ALM (Alarm), RESET, and battery charge levels (100%, 75%, 50%, 25%) are visible.

## Powering Off

1. Turn off the "AC OUT ON/OFF" circuit breakers to disconnect loads.
2. Turn off the "INVERTER ON/OFF" switch.
3. Turn off the "AC IN ON/OFF" circuit breaker.
4. Turn off the "PV ON/OFF" circuit breakers.
5. Finally, turn off the "BATTERY ON/OFF" switch.

## MAINTENANCE

- **Regular Cleaning:** Keep the unit clean and free of dust. Use a soft, dry cloth to wipe surfaces. Do not use liquid cleaners.
- **Ventilation Check:** Periodically check that the ventilation openings are not blocked.
- **Connection Check:** Annually inspect all electrical connections for tightness and signs of corrosion.
- **Battery Maintenance:** The integrated LiFePO4 battery is designed for long life (10 years) and requires minimal

maintenance. Avoid deep discharges where possible to prolong battery life.

- **Storage:** If storing the unit for an extended period, ensure the battery is charged to at least 50% and store in a cool, dry place (0°C to 35°C). Recharge every 3-6 months.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Unit does not power on.	No AC input; Battery switch off; Internal fault.	Check AC input connection and circuit breaker. Ensure "BATTERY ON/OFF" switch is on. If problem persists, contact support.
No AC output.	AC output breaker tripped; Inverter off; Overload.	Check "AC OUT ON/OFF" breaker. Ensure "INVERTER ON/OFF" switch is on. Reduce connected load.
ALM indicator is on.	Overload; Over-temperature; Battery fault.	Reduce load. Ensure adequate ventilation. If alarm persists, power off and contact support.
Solar charging not working.	PV input breaker off; Incorrect PV connection; Insufficient sunlight.	Check "PV ON/OFF" breakers. Verify PV panel connections and polarity. Ensure panels are receiving adequate sunlight.

For issues not listed here, or if solutions do not resolve the problem, please contact DATOUBOSS customer support.

## SPECIFICATIONS

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Parameter	Value
Product Name	UPS Uninterruptible Power Supply
Model Number	JC-1115
Specifications	11kW/15.36kWh 250A
Battery Capacity	15.36kWh
Rated Voltage/Capacity	51.2V 300Ah (LiFePO4)
AC Output Power	11000W
AC Power Input	220/230/240VAC $\pm 5\%$ , 50Hz/60Hz (adaptive), 150A
AC Output	220/230/240VAC $\pm 5\%$ , 50/60Hz $\pm 0.1\%$ , 150A
Maximum Photovoltaic Input Power	2*5500W (Total 11000W)
MPPT Tracking Range	90~500Vdc, 27A
Operating Temperature	-10°C~50°C
Storage Temperature	0°C~35°C
IP Grade	IP20
Battery Life	10 years (LiFePO4)
Material	Metal

## WARRANTY AND SUPPORT

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DATOUBOSS provides a warranty for this product against defects in materials and workmanship under normal use. The specific warranty period may vary by region and purchase agreement. Please retain your proof of purchase for warranty claims.

For technical support, warranty service, or spare parts inquiries, please contact your authorized DATOUBOSS dealer or visit the official DATOUBOSS website for contact information.

*Note: Information regarding specific warranty duration or availability of spare parts was not provided in the product data. Please refer to your purchase documentation or contact the manufacturer directly for precise details.*

