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EXTRALINK 2100W

Extralink PIORUN 2100W Pure Sine Wave UPS User Manual

1. Introduction

This manual provides essential information for the safe and efficient operation of your Extralink PIORUN 2100W Pure Sine Wave Uninterruptible Power Supply (UPS). This device is designed to provide reliable emergency power, functioning as an inverter, battery charger, and Automatic Voltage Regulator (AVR). It is suitable for sensitive technologies such as heating pumps, servers, and medical devices.

Please read this manual thoroughly before installation and use, and keep it for future reference.

2. Safety Instructions

Observe the following safety precautions to prevent injury and damage to the device:

- Ensure the UPS is installed in a well-ventilated area, away from direct sunlight, heat sources, and moisture.
- Do not open the UPS casing. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Connect the UPS only to a grounded power outlet.
- Ensure proper battery connection. Incorrect polarity can cause severe damage.
- Do not connect appliances that exceed the UPS's rated power output (2100W).
- Keep children and pets away from the UPS during operation.
- In case of smoke, unusual odors, or abnormal operation, immediately disconnect the UPS from the power source and contact support.



Image: Multi-layer protection features of the Extralink PIORUN UPS, including overload, overvoltage, undervoltage, short circuit, and overheating protection.

3. Product Overview

Key Features

- **Pure Sine Wave Output:** Provides clean and stable power, ideal for sensitive electronics.
- **High Power Output:** 2100W continuous power, 24V DC input to 230V AC output.
- **Fast Switching Time:** Less than 10ms transfer time ensures seamless power transition during outages.
- **4-in-1 Functionality:** Operates as an inverter, battery charger, Automatic Voltage Regulator (AVR), and Uninterruptible Power Supply (UPS).
- **LCD Display:** Real-time monitoring of input/output voltage, battery level, and load.
- **Battery Compatibility:** Supports external 24V AGM, Gel, and LiFePO4 batteries (not included) for extended backup time.
- **Advanced Protection:** Features active cooling, intelligent battery management, and protection against overvoltage, undervoltage, overload, short circuit, and overheating.
- **Robust Design:** Compact (290x255x120 mm) with a durable metal/ABS housing.



Image: The Extralink PIORUN UPS highlighting its 4-in-1 functionality: UPS, Inverter, Battery Charger, and AVR.

Applications

The Extralink PIORUN UPS is versatile and suitable for various critical applications:

- **Heating Systems:** Provides uninterrupted power for heating pumps and boilers.
- **IT Infrastructure:** Ideal for servers, network devices, and personal computers.
- **Medical Devices:** Ensures continuous operation of essential medical equipment.
- **Security Systems:** Powers security cameras and emergency lighting.



Image: The Extralink PIORUN UPS shown in various settings, including heating systems, IT networks, medical facilities, and emergency lighting.

4. Setup

4.1 Unpacking and Inspection

- Carefully remove the UPS from its packaging.
- Inspect the unit for any signs of damage during transit. If damage is found, do not proceed with installation and contact your supplier.
- Ensure all components listed in the packing list are present.

4.2 Battery Connection

The Extralink PIORUN UPS requires external 24V batteries. It is compatible with AGM, Gel, and LiFePO4 battery types. Ensure the batteries are rated for 24V or connect two 12V batteries in series to achieve 24V.

- Turn off the UPS and disconnect it from the main power supply before connecting batteries.
- Connect the positive (+) terminal of the battery to the positive (+) terminal on the UPS.
- Connect the negative (-) terminal of the battery to the negative (-) terminal on the UPS.
- Ensure all connections are secure and tight.

Image: The Extralink PIORUN UPS providing automatic emergency power to a heating system, connected to an external 24V battery. This setup ensures protection during power outages and is compatible with AGM, Gel, and LiFePO4 batteries.



Image: A diagram illustrating the compatibility of the UPS with maintenance-free AGM VRLA, GEL, and LiFePO4 batteries.

4.3 Power Connection

- Connect the UPS input power cord to a standard 230V AC wall outlet.
- Connect your devices (e.g., heating pump, server, medical equipment) to the output socket(s) of the UPS.
- Ensure the total power consumption of connected devices does not exceed 2100W.

5. Operating Instructions

5.1 Turning On/Off

- **To Turn On:** Press and hold the power button for a few seconds until the LCD screen illuminates. The UPS will perform a self-test.
- **To Turn Off:** Press and hold the power button until the LCD screen turns off.

5.2 LCD Display Information

The integrated LCD provides real-time operational status:

- **Input Voltage:** Displays the current AC input voltage from the utility grid.
- **Output Voltage:** Shows the AC output voltage supplied to connected devices.
- **Battery Level:** Indicates the remaining charge of the connected external battery.
- **Load Level:** Displays the percentage of the UPS's capacity currently being used by connected devices.
- **Operational Mode:** Shows whether the UPS is operating in AC mode (charging/bypassing) or Battery mode (inverting).



Image: A close-up of the Extralink PIORUN UPS LCD display, clearly showing real-time input/output voltage, battery level, and load status at a glance. This display is ideal for monitoring sensitive equipment.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your UPS:

- **Cleaning:** Periodically clean the exterior of the UPS with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure the ventilation openings are clear of dust and obstructions to allow for proper airflow. The active cooling system relies on clear vents.
- **Battery Check:** For external batteries, regularly check their terminals for corrosion and ensure connections are tight. Follow the battery manufacturer's maintenance guidelines.
- **Storage:** If storing the UPS for an extended period, ensure the batteries are fully charged and store in a cool, dry place. Recharge batteries every 3-6 months to prevent deep discharge.



Image: The Extralink PIORUN UPS highlighting its integrated fan, which ensures maximum protection and efficient cooling during operation.

7. Troubleshooting

This section addresses common issues you might encounter. If the problem persists, contact customer support.

Problem	Possible Cause	Solution
UPS does not turn on	No input power; Battery not connected or discharged; Power button not pressed correctly.	Check power cord connection; Ensure battery is connected and charged; Press and hold power button for 3 seconds.
No output power	Overload; Battery discharged; UPS in fault mode.	Reduce connected load; Allow battery to recharge; Turn off and restart UPS.
Short backup time	Battery capacity too low; Battery old or faulty; Overload.	Use higher capacity batteries; Replace old batteries; Reduce connected load.
LCD display is blank	UPS is off; Internal fault.	Turn on the UPS; If problem persists, contact support.

8. Specifications

Feature	Specification
Brand	EXTRALINK
Model Name	PIORUN 2100W
Power Output	2100 Watts

Feature	Specification
Inverter Volt-Amp Capacity	2100 VA
Input Voltage	24 Volts DC
Output Voltage	230 Volts AC
Output Waveform	Pure Sine Wave
Number of Outlets	1
Screen Type	LCD
Recommended Uses	Home, Office
Dimensions (approx.)	290 x 255 x 120 mm (from feature bullets)
Weight (approx.)	18.05 kg (from image)
Country of Origin	China



Image: The Extralink PIORUN UPS displaying its physical dimensions (435mm length, 345mm width, 185mm height) and weight (18.05 kg).

9. Warranty and Support

Your Extralink PIORUN 2100W UPS comes with a**24-month product warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover damages caused by:

- Improper installation or operation.
- Unauthorized modifications or repairs.
- Accidents, misuse, abuse, or neglect.
- Natural disasters or power surges.

For warranty claims, technical support, or any questions regarding your product, please contact your retailer or the official

Extralink customer service. Please have your purchase receipt and product model information ready.

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