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Liebert GXT4-3000RT230

Liebert GXT4 UPS 3000VA/2700W 230V User Manual

Model: GXT4-3000RT230

1. Introduction

This manual provides essential information for the safe and efficient operation of your Liebert GXT4 Uninterruptible Power Supply (UPS). The Liebert GXT4 is designed to protect your critical IT infrastructure from power disturbances, ensuring continuous operation and data integrity.

The GXT4-3000RT230 model features on-line, double-conversion technology, a capacity of 3000VA/2700W, and operates on 230V AC power. It supports both rack-mount and tower configurations and includes hot-swappable batteries for extended runtime capabilities.


Liebert GXT
ESC
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Figure 1: Liebert GXT4 UPS 3000VA/2700W 230V in tower configuration. This image shows the front panel with display and control buttons, and the two base stands for vertical placement.

2. Safety Information

Please read and understand all safety instructions before installing, operating, or servicing this UPS. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Hazard:** This unit contains high voltage. Do not open the UPS enclosure. Refer all servicing to qualified service personnel.
- **Battery Safety:** Batteries can present a risk of electrical shock and high short-circuit current. Observe the following precautions:
  - Do not dispose of batteries in a fire. They may explode.
  - Do not open or mutilate batteries. Released electrolyte is harmful to the skin and eyes.
  - Replace batteries only with the same type and number of batteries as specified by the manufacturer.
- **Installation Environment:** Install the UPS in a controlled environment, free from excessive dust, moisture, and extreme temperatures. Ensure adequate ventilation.
- **Grounding:** The UPS must be properly grounded to prevent electric shock.
- **Weight:** The UPS is heavy (71.4 pounds). Use proper lifting techniques or assistance during installation to prevent injury.

3. Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, contact your supplier immediately.

- Liebert GXT4 3000VA UPS Unit
- 4-post Rack-mounting Rail Kit (for rack installation)
- Tower Support Stands (for tower installation)
- Input Power Cable (10 feet)
- USB Cable (3.9 feet)
- Quick Start Guide
- User Manual (this document)
- Liebert Multilink Shutdown Software (Installation CD)
- UPS Configuration Program (Installation CD)

4. Setup

4.1 Site Preparation

Before installation, ensure the installation site meets the following requirements:

- **Power Source:** A dedicated 230V AC power outlet with appropriate current rating.
- **Ventilation:** Ensure adequate airflow around the UPS. Do not block ventilation openings.
- **Temperature & Humidity:** Operate within specified environmental limits (refer to Specifications section).
- **Weight Support:** The surface or rack must be able to support the UPS weight of 71.4 pounds.

4.2 Installation Options

The Liebert GXT4-3000RT230 can be installed in two configurations:

1. **Tower Configuration:**

   Attach the provided tower support stands to the bottom of the UPS unit. Ensure the unit is stable and upright. This configuration is suitable for standalone placement.

2. **Rack-Mount Configuration:**

   Install the 4-post rack-mounting rail kit into a standard 19-inch equipment rack. Carefully slide the UPS unit onto the installed rails. Secure the UPS to the rack using the provided screws.

4.3 Connecting the UPS

1. **Connect Input Power:** Connect the supplied input power cable from the UPS to a grounded 230V AC power outlet.
2. **Connect Equipment:** Connect your critical equipment (servers, network devices, etc.) to the output receptacles on the rear of the UPS. Ensure the total load does not exceed the UPS capacity (2700W).
3. **Connect Communication Cables:**
   - Connect the USB cable from the UPS to your computer or server for monitoring and shutdown software communication.
   - (Optional) Connect an SNMP/Web card (sold separately) for network monitoring.

5. Operating the UPS

5.1 Initial Startup

1. After connecting all cables, press the Power On button on the front panel of the UPS.
2. The UPS will perform a self-test and then enter normal operating mode. The front panel display will show the current status.

5.2 Front Panel Display and Controls

The front panel features an LCD display and control buttons for monitoring UPS status, configuring settings, and performing tests.

- **LCD Display:** Shows input/output voltage, load percentage, battery status, and alarm messages.
- **Control Buttons:** Navigate menus, confirm selections, and perform actions like self-tests or alarm silencing. Refer to the detailed User Manual (on CD) for specific button functions.

5.3 Operating Modes

The Liebert GXT4 operates primarily in On-Line Double Conversion mode, providing the highest level of power protection. It also features an Eco-Mode for enhanced efficiency.

- **On-Line Double Conversion:** The UPS continuously converts incoming AC power to DC to charge batteries, and then converts DC back to clean AC power for connected equipment. This isolates equipment from all power disturbances.
- **Eco-Mode:** An optional mode that allows the UPS to operate at higher efficiency during stable power conditions by bypassing the double conversion process. The UPS will automatically switch to On-Line mode if power quality degrades. This mode can be configured via the front panel or software.

5.4 Battery Backup Operation

In the event of a power outage, the UPS will seamlessly transfer to battery power, providing continuous power to connected equipment. The runtime depends on the connected load and battery health. At full load (2700W), the UPS provides approximately 3 minutes of runtime.
Additional external battery cabinets can be added to extend runtime significantly.

6. Maintenance

6.1 Battery Replacement

The Liebert GXT4 features hot-swappable batteries, allowing replacement without shutting down connected equipment. Battery life is typically 3-5 years, depending on environmental conditions and discharge cycles. Replace batteries when the UPS indicates a battery fault or when runtime significantly decreases.
Procedure: Refer to the detailed User Manual (on CD) for specific instructions on hot-swapping batteries. Always use genuine Liebert replacement battery kits.

6.2 General Care

- Keep the UPS clean and free of dust. Use a soft, dry cloth for cleaning.
- Ensure ventilation openings are clear and unobstructed.
- Perform a battery self-test periodically (e.g., every 3-6 months) to assess battery health. This can be initiated from the front panel or software.

7. Troubleshooting

This section provides solutions to common issues. For more complex problems, refer to the detailed User Manual or contact technical support.

Problem	Possible Cause	Solution
UPS does not turn on.	No input power; UPS not connected to outlet; Battery discharged.	Check power cable connection; Verify wall outlet has power; Allow UPS to charge for several hours before attempting to turn on.
UPS beeps continuously.	On battery power; Overload; Battery fault.	Check input power; Reduce connected load; Perform battery self-test and replace battery if faulty.
Connected equipment loses power.	UPS shut down due to low battery; Overload; Internal fault.	Check battery status; Reduce load; Contact technical support if fault persists.

8. Specifications

Key technical specifications for the Liebert GXT4-3000RT230 UPS:

- **Model Number:** GXT4-3000RT230
- **Capacity:** 3000VA / 2700W
- **Input Voltage:** 230 Volts AC
- **Technology:** Online Double Conversion
- **Product Dimensions:** 23.7 x 16.9 x 3.4 inches (L x W x H)
- **Item Weight:** 71.4 pounds

- **Battery Type:** Lead Acid (1 Product Specific battery required, included)
- **Color:** Black
- **Material:** Metal
- **Manufacturer:** Emerson Network Power (now Vertiv)
- **First Available:** March 10, 2015

9. Warranty and Support

For warranty information, please refer to the warranty card included with your product or visit the official Liebert (Vertiv) website. Keep your proof of purchase for warranty claims.
For technical assistance, troubleshooting beyond this manual, or to order replacement parts, please contact Liebert (Vertiv) customer support. Contact details can typically be found on the manufacturer's website or in the detailed User Manual CD.
Online Resources: For the latest drivers, software updates, and detailed documentation, visit theVertiv website (Liebert is a brand of Vertiv).

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