

Vertiv GXT5-EBC72VRT2U

Vertiv Liebert GXT5 72V External Battery Cabinet User Manual

Model: GXT5-EBC72VRT2U | Brand: Vertiv

1. PRODUCT OVERVIEW

The Vertiv Liebert GXT5-EBC72VRT2U is a hot-swappable, lead-acid UPS battery cabinet designed to extend the runtime of Liebert GXT5-3000LVRT2UXL UPS systems. This external battery cabinet enhances power availability by providing additional battery backup during power outages, ensuring continuous operation for critical loads. Its auto-detection feature simplifies installation, and it supports connectivity for up to six additional units for further runtime extension.

2. SAFETY INFORMATION

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

- **Electrical Hazard:** This unit contains high voltage components. Do not open the cabinet or attempt to service it yourself. Refer all servicing to qualified 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, as they may explode.
 - Do not open or mutilate batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.
 - Wear rubber gloves and boots.
 - Do not lay tools or metal parts on top of batteries.
- **Weight Hazard:** The unit is heavy (110 pounds). Use proper lifting techniques and equipment to prevent injury.
- **Installation Environment:** Install the unit in a controlled environment, away from excessive heat, humidity, and dust.

3. SETUP AND INSTALLATION

3.1 Package Contents

Verify that all components are present:

- Vertiv Liebert GXT5-EBC72VRT2U External Battery Cabinet

- Installation Guide
- Mounting Hardware (for rack installation)
- Battery Connection Cables

3.2 Physical Installation

The GXT5-EBC72VRT2U is a compact 2U rack-mounted unit. Ensure adequate ventilation space around the cabinet.

1. **Rack Mounting:** Secure the battery cabinet into a standard 19-inch equipment rack using the provided mounting hardware.
2. **Connecting to UPS:** Connect the battery cabinet to the compatible Liebert GXT5-3000LVRT2UXL UPS system using the supplied battery connection cables. The unit features auto-detection connectivity for proper setup and configuration.
3. **Multiple EBCs:** Up to 6 additional External Battery Cabinet units can be connected to the UPS for extended runtime.

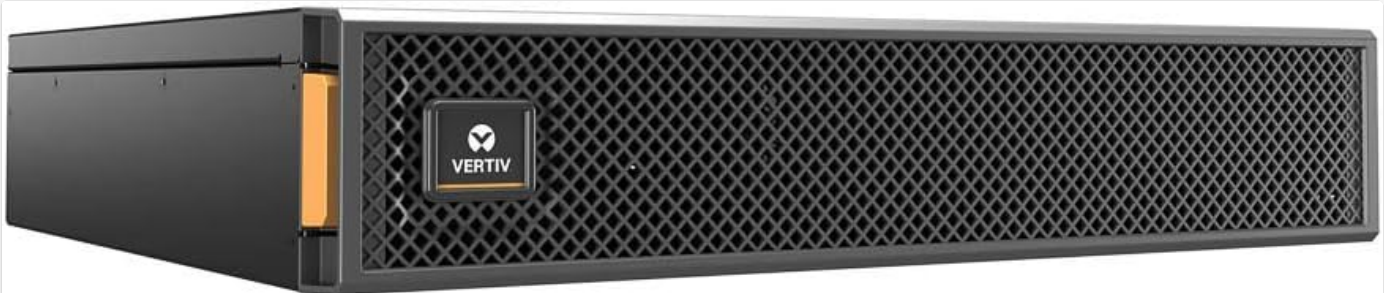


Figure 3.2.1: Front view of the Vertiv Liebert GXT5 External Battery Cabinet. This image shows the front panel with the Vertiv logo and ventilation grille.



Figure 3.2.2: Rear view of the Vertiv Liebert GXT5 External Battery Cabinet. This image highlights the battery connection ports and temperature sensor.

3.3 Initial Power-Up

Once physically installed and connected to the UPS, follow the UPS system's power-up procedure. The battery cabinet will be automatically detected and integrated into the UPS system's power management.

4. OPERATING INSTRUCTIONS

4.1 Normal Operation

During normal operation, the UPS system, along with the connected external battery cabinet, continuously cleans and regulates power supplied to your IT loads. The UPS battery and the external battery cabinet are simultaneously charged to maintain full capacity.

4.2 Power Outage and Battery Backup

In the event of a power outage or interruption, the Liebert GXT5 UPS system will seamlessly switch to battery power, drawing from both its internal batteries and the connected GXT5-EBC72VRT2U external battery cabinet. An alarm will typically sound on the UPS and any connected monitoring application, indicating the power status change.

The external battery cabinet significantly extends the runtime, providing more time to safely shut down equipment or for power to be restored.

4.3 Programmable Output Sockets (UPS Feature)

The Liebert GXT5 UPS, when paired with this battery cabinet, allows for prioritization of battery utilization through its programmable and controllable output sockets. This feature enables you to manage power distribution to critical and non-critical loads during a power event.

- **Remote Control:** Using the UPS monitoring application, you can remotely turn off socket groups connected to non-critical loads. This conserves battery power for essential equipment.
- **Automated Shutdown:** You can program the Liebert GXT5 UPS to automatically turn off specific socket groups at a pre-defined battery level. This ensures that critical loads receive power for a longer duration.

By intelligently managing power to different load groups, you can significantly increase the battery runtime for your most critical systems, providing more time for problem resolution or generator activation.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your external battery cabinet.

- **Battery Replacement:** The batteries within the GXT5-EBC72VRT2U are hot-swappable, allowing for replacement without interrupting power to connected loads. Refer to the UPS system's manual for specific battery replacement procedures.
- **Cleaning:** Keep the exterior of the cabinet clean and free from dust. Ensure ventilation openings are not obstructed. Use a dry, soft cloth for cleaning.
- **Environmental Sensors:** The unit includes external temperature compensation sensors that help extend battery life by optimizing charging based on ambient temperature. Ensure these sensors are not obstructed.
- **Regular Checks:** Periodically check the status indicators on your UPS and monitoring application for any alarms or warnings related to the battery cabinet.

6. TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, contact technical support.

Problem	Possible Cause	Solution
Battery cabinet not detected by UPS.	Loose or incorrect battery connection cables.	Verify that all battery connection cables are securely and correctly attached between the UPS and the battery cabinet. Ensure the auto-detection feature has completed its cycle.
Reduced battery runtime.	Aging batteries; excessive load; high ambient temperature.	Check battery health via UPS monitoring. Consider battery replacement if aged. Reduce non-critical loads. Ensure proper ventilation and operating temperature.
Alarm indicating battery fault.	Internal battery issue; connection problem.	Consult the UPS system's manual for specific alarm codes. If hot-swappable batteries are faulty, replace them. If the issue persists, contact Vertiv support.

7. SPECIFICATIONS



Feature	Detail
Model Number	GXT5-EBC72VRT2U
Product Dimensions	21.3 x 16.9 x 3.3 inches
Item Weight	110 pounds
Battery Cell Composition	Lead Acid (VRLA)
Voltage	72 Volts
Compatibility	Liebert GXT5-3000LVRT2UXL (3000 VA) UPS systems
Form Factor	2U Rack Mounted
Features	Hot-swappable, Auto-detection, External Temperature Compensation Sensors


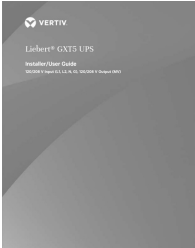
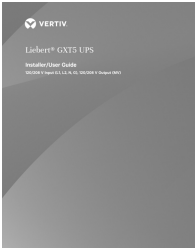

8. WARRANTY AND SUPPORT

The Vertiv Liebert GXT5-EBC72VRT2U External Battery Cabinet comes with a **three-year factory warranty**. For technical support, service, or warranty claims, please contact Vertiv customer support. Refer to the official Vertiv website or the documentation included with your UPS system for contact information. You can also visit the [Vertiv Store on Amazon](#) for more product information and resources.

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Related Documents - GXT5-EBC72VRT2U

	<p>Liebert GXT5 UPS Installer/User Guide</p> <p>Comprehensive guide for installing and operating the Liebert GXT5 Uninterruptible Power System (UPS), covering features, models, installation procedures, operation, maintenance, and troubleshooting.</p>
	<p>Liebert GXT5 UPS Installer/User Guide</p> <p>Comprehensive installer and user guide for the Vertiv Liebert GXT5 Uninterruptible Power System (UPS), covering models from 5,000 VA to 20,000 VA. Learn about installation, operation, maintenance, and troubleshooting.</p>

	<p>Vertiv Liebert GXT5 UPS: Intelligent & Efficient Power Protection Product Overview</p> <p>Explore the Vertiv Liebert GXT5 UPS series, offering intelligent and efficient power protection for mission-critical applications. This overview details its features, specifications, family overview, service packages, accessories, and mounting options, highlighting its compact design, high efficiency, and advanced management capabilities.</p>
	<p>Vertiv Liebert GXT5 UPS: Installer and User Guide</p> <p>Comprehensive guide for the Vertiv Liebert GXT5 Uninterruptible Power System (UPS). Covers installation, operation, maintenance, troubleshooting, and specifications for reliable power protection.</p>
	<p>Vertiv Liebert GXT5 UPS Installer/User Guide</p> <p>Comprehensive guide for installing, operating, and maintaining the Vertiv Liebert GXT5 Uninterruptible Power System (UPS), covering safety, features, troubleshooting, and specifications.</p>
	<p>Vertiv Liebert GXT5 UPS: 15-20kVA Power Protection for Mission-Critical Applications</p> <p>Explore the Vertiv Liebert GXT5 UPS series, offering 15-20kVA of intelligent, efficient, and reliable power protection for mission-critical applications. Features include online double conversion, unity power factor, high efficiency, and advanced management capabilities.</p>