

Vertiv GXT5-EBC48VRT2U

Vertiv GXT5 72V External Battery Cabinet 48V User Manual

Model: GXT5-EBC48VRT2U

1. INTRODUCTION

Welcome to the user manual for the Vertiv GXT5 72V External Battery Cabinet 48V (Model: GXT5-EBC48VRT2U). This manual provides essential information for the safe and efficient installation, operation, and maintenance of your external battery cabinet. Please read this manual thoroughly before using the product and retain it for future reference.

The Vertiv GXT5 External Battery Cabinet is designed to extend the runtime of compatible Vertiv GXT5 Uninterruptible Power Supply (UPS) systems, providing critical backup power during outages.

2. IMPORTANT SAFETY INFORMATION

WARNING: Risk of electric shock. Do not remove cover. Refer servicing to qualified personnel only.

- Always disconnect the battery cabinet from the UPS and power source before performing any maintenance or service.
- Do not attempt to open or service the battery cabinet. There are no user-serviceable parts inside.
- Ensure proper grounding of the UPS system and the battery cabinet.
- Avoid installing the unit in areas with excessive heat, humidity, or dust.
- Do not block ventilation openings.
- Use only specified cables and connectors provided with the unit or approved by Vertiv.
- Batteries can present a risk of electrical shock and high short-circuit current. Observe the following precautions when working on batteries:
 - Remove watches, rings, or other metal objects.
 - Use tools with insulated handles.

3. PRODUCT OVERVIEW

3.1 Features

- External 48V UPS battery cabinet provides extended runtime during an outage.
- Compatible with Liebert GXT5-1500LVRT2UXL (1500 VA) and Liebert GXT5-2000LVRT2UXL (2000 VA) UPS systems.
- Auto detection connectivity ensures proper set-up and configuration of available run time.
- Compact 2U rack mounted design.
- Includes external temperature compensation sensors that extend battery life.

3.2 Components

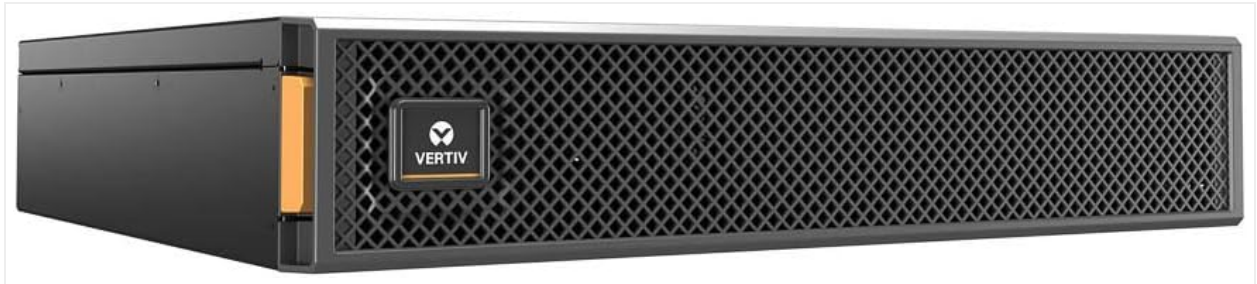


Figure 3.2.1: Main view of the Vertiv GXT5 External Battery Cabinet. This image shows the overall sleek, black design of the 2U rack-mountable unit with the Vertiv logo prominently displayed on the front grille.



Figure 3.2.2: Front view of the Vertiv GXT5 External Battery Cabinet. This image highlights the front panel with its distinctive honeycomb grille pattern and the Vertiv branding.



Figure 3.2.3: Rear view of the Vertiv GXT5 External Battery Cabinet. This image displays the various ports and connectors, including the battery connector, EBC count switches, and the temperature sensor port, along with safety warnings.



Figure 3.2.4: Top view of the Vertiv GXT5 External Battery Cabinet. This image provides an overhead perspective, showing the smooth top surface and the overall compact form factor of the unit.

4. SETUP AND INSTALLATION

4.1 Unpacking

- Carefully unpack the external battery cabinet from its packaging.
- Inspect the unit for any signs of damage that may have occurred during shipping. If damage is found, contact your dealer immediately.
- Verify that all components listed in the packing list are present.

4.2 Placement

- The GXT5-EBC48VRT2U is designed for indoor use only.
- Place the battery cabinet in a clean, dry area, away from direct sunlight, heat sources, and excessive moisture.
- Ensure adequate airflow around the unit to prevent overheating. Maintain at least 2 inches (5 cm) of clearance on all sides.
- The unit can be rack-mounted or placed on a stable, flat surface.

4.3 Connecting the External Battery Cabinet

1. Ensure the compatible Vertiv GXT5 UPS system is turned off and disconnected from the AC power source.
2. Locate the external battery connector port on the rear of the UPS.
3. Connect the battery cable from the external battery cabinet to the corresponding port on the UPS. Ensure the connection is secure. Refer to Figure 3.2.3 for the location of the battery connector on the EBC.
4. If connecting multiple external battery cabinets (up to 6), connect them in series using the provided communication cables.
5. The new auto-detection feature will automatically configure the UPS to recognize the connected battery cabinet(s), ensuring proper setup and accurate runtime calculation.
6. Once connected, you may power on the UPS system.

5. OPERATING INSTRUCTIONS

5.1 Initial Power-Up

After connecting the external battery cabinet to the UPS, power on the UPS system according to its specific user manual. The UPS will automatically detect the connected battery cabinet(s) and adjust its runtime calculations accordingly.

5.2 Monitoring

Monitor the battery status and runtime information through the UPS display or management software. The added battery capacity from the external cabinet will be reflected in the UPS's reported runtime.

5.3 Extending Runtime

The primary function of the GXT5-EBC48VRT2U is to provide extended runtime for your connected equipment during a power outage. When the UPS switches to battery mode, the external battery cabinet will seamlessly provide additional power, allowing for longer operation or a more graceful shutdown of critical systems.

6. MAINTENANCE

6.1 Battery Care

- The GXT5-EBC48VRT2U utilizes lead-acid batteries. These batteries are designed for long life, especially with the integrated external temperature compensation sensors that help optimize charging based on ambient temperature.
- Avoid frequent deep discharges, as this can shorten battery life.
- Ensure the battery cabinet is kept in a well-ventilated area to prevent heat buildup, which can degrade battery performance.
- Battery replacement should only be performed by qualified service personnel.

6.2 Cleaning

Periodically clean the exterior of the battery cabinet with a soft, dry cloth. Do not use liquid or aerosol cleaners, as they may damage the unit or pose an electrical hazard.

6.3 Storage

If the battery cabinet is to be stored for an extended period, ensure it is fully charged and stored in a cool, dry place. It is recommended to recharge the batteries every 3-6 months to prevent deep discharge and maintain battery health.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Vertiv GXT5 External Battery Cabinet. For problems not listed here, please contact Vertiv customer support.

Problem	Possible Cause	Solution
External Battery Cabinet not detected by UPS.	Loose or incorrect cable connection.	Ensure the battery cable is securely connected to both the EBC and the UPS. Verify the correct port is used.
Reduced or no extended runtime.	Batteries not fully charged or nearing end of life.	Allow the UPS to charge the batteries for at least 24 hours. If the issue persists, contact Vertiv support for battery health assessment.

Problem	Possible Cause	Solution
Overheating of the unit.	Blocked ventilation or high ambient temperature.	Ensure adequate clearance around the unit. Relocate to a cooler environment if necessary.

8. SPECIFICATIONS

8.1 Technical Specifications

Attribute	Value
Model Number	GXT5-EBC48VRT2U
Product Dimensions (L x W x H)	18.6 x 16.9 x 3.3 inches
Item Weight	58.9 pounds
Battery Cell Composition	Lead Acid
Voltage	48 Volts
Color	Black
Material	Metal
Manufacturer	Vertiv
Country of Origin	China
First Available Date	June 5, 2019




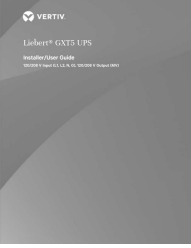
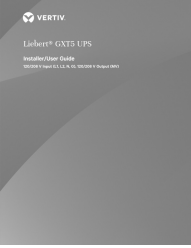

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The Vertiv GXT5-EBC48VRT2U External Battery Cabinet comes with a **three-year factory warranty**. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the documentation included with your product or visit the official Vertiv website.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Vertiv customer support. You can find contact information and additional resources by visiting the [Vertiv Store on Amazon](#) or the official Vertiv website.

	<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>