

Vertiv™ Liebert® GXT5

36V/48V/72V External Battery Cabinet

Quick Installation Guide



Important: Before installing, connecting to supply, or operating your Liebert® GXT5 UPS, please review the Safety and Regulatory Statements sheet. For detailed installation, operating, maintenance and troubleshooting information, refer to the Liebert® GXT5 User Guide for your model available at www.Vertiv.com.

1 Product Introduction

The battery cabinet is used to accommodate external batteries for UPS. Before delivery, the Liebert GXT5-EBC36VRT2U/UE battery cabinet has been fitted with six 12Vdc batteries; Liebert GXT5-EBC48VRT2U/UE cabinet with eight 12Vdc batteries; Liebert GXT5-EBC72VRT2U/UE cabinet with twelve 12Vdc batteries.

1.1 Appearance and Port

The rear panel of the battery cabinet provides battery ports (silk print: BATTERY CONNECTOR) and BATTERY BREAKER (silk print: CIRCUIT BREAKER), as shown in Figure 1-1.

1.2 Technical Specifications

See Table 1-1 for the mechanical specifications of the battery cabinet.

See Table 1-2 for the environmental specifications of the battery cabinet.

UPS and EBC combination / compatibilities requirements

Battery Cabinet	UPS
GXT5-EBC36VRT2U (with rack rail)	GXT5-750IRT2UXL/XLA/XLB
GXT5-EBC36VRT2UE (without rack rail)	GXT5-1000IRT2UXL/XLA/XLB GXT5-1000LVRT2UXL/XLA/XLB
GXT5-EBC48VRT2U (with rack rail)	GXT5-1500IRT2UXL/XLA/XLB
GXT5-EBC48VRT2UE (without rack rail)	GXT5-1500LVRT2UXL/XLA/XLB GXT5-2000IRT2UXL/XLA/XLB GXT5-2000LVRT2UXL/XLA/XLB
GXT5-EBC72VRT2U (with rack rail)	GXT5-3000IRT2UXL/XLA/XLB
GXT5-EBC72VRT2UE (without rack rail)	GXT5-3000LVRT2UXL/XLA/XLB GXT5-3KL620RT2UXL GXT5-3KL630RT2UXL

Figure 1-1 GXT5-EBCXXVRT2U Battery cabinet (rear view)

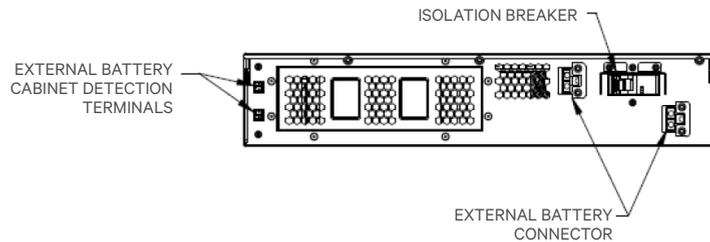


Table 1-1 Mechanical specifications

Model	Dimension (D × W × H) mm	Weight kg (with battery)
GXT5-EBC36VRT2U/UE	370 × 430 × 85	20
GXT5-EBC48VRT2U/UE	440 × 430 × 85	30
GXT5-EBC72VRT2U/UE	510 × 430 × 85	45

Table 1-2 Environmental specifications

Parameter	Recommended range
Ambient temperature	0 °C to 50 °C
Relative humidity	0%RH ~ 90%RH (non-condensing)
Altitude	≤ 3,000m

NOTE: Non-certified technicians are prohibited from opening the chassis cover of the battery cabinet.

2 Installation

2.1 Installation Environment

The installation environment of the battery cabinet should meet the following requirements:

- Well ventilated, away from direct sunlight
- Well away from water, heat, flammables, and explosive substances
- Free of dust, volatile gas, salt, and corrosive materials

2.2 Unpacking Inspection

1. Unpack the battery cabinet and visually inspect its appearance. If you find any shipping damage, notify the carrier immediately.
2. Check against the delivery list that all accessories are present and correct.

2.3 Mechanical Installation

The battery cabinet uses a rack installation.

2.4 Installation in a Rack

1. Locate the accessory brackets and M4 screws. Use the screws to fix the brackets onto the battery cabinet through the installation holes, as shown in Figure 2-1.
2. Put the battery cabinet on the guide rack rails and push into the rack completely.
3. Through the brackets, use M5 screws to secure the battery cabinet to the rack.

Figure 2-1 Bracket handle installation



3 Cable Connection

Notes

- *Different UPS's cannot share the same battery group, or the UPS's will be damaged. Additionally, batteries of different models, manufacturers and use states cannot be used together.*
- *Use a multimeter to measure the voltage of the battery group, which should be at least 36Vdc for the Liebert® GXT5-EBC36VRT2U/UE, 48Vdc for the Liebert® GXT5-EBC48VRT2U/UE, and 72Vdc for the Liebert® GXT5-EBC72VRT2U/UE in the battery cabinet.*
- *The battery cabinet is delivered with a 0.6m battery cable. Users should not use their own cable.*
- *Before connecting or replacing the battery cable, open the BATTERY BREAKER on the battery cabinet.*
- *Do not invert the battery polarities.*
- *Non-certified technicians are prohibited from opening the chassis cover of the battery cabinet.*

4 Connection Procedures

4.1 Connecting battery cabinet and UPS

1. Open the BATTERY BREAKER on the battery cabinet.
2. Connect the battery cable accessory to one end of the battery port on the rear panel of the UPS and connect the other end to any battery port on the rear panel of the battery cabinet. Make sure they are in parallel.

4.2 Connecting battery cabinets in parallel

1. Open the BATTERY BREAKER on the battery cabinet.
2. Locate the battery cable accessory and connect it between any two battery ports of the two battery cabinets.

To contact Vertiv Technical Support: visit www.Vertiv.com

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