

Vertiv™ Liebert® GXT5 144V/288V 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.

UPS and EBC combination / compatibilities requirements

Battery Cabinet	UPS
GXT5-EBC144VRT2U (with rack rail)	GXT5-5000MVRT4UXLN GXT5-6000MVRT4UXLN
GXT5-EBC288VRT4U (with rack rail)	GXT5-8000MVRT6UXLN GXT5-10KMVRT6UXLN

1 Product Introduction

The battery cabinet is used to accommodate external batteries of UPS. Before delivery, Liebert GXT5-EBC144VRT2U battery cabinet has one group of twelve 12Vdc batteries installed, Liebert GXT5-EBC288VRT2U battery cabinet has two groups of twelve 12Vdc batteries installed.

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.

Figure 1-1 GXT5-EBC144VRT2U & GXT5-EBC288VRT2U Battery Cabinet (rear view)

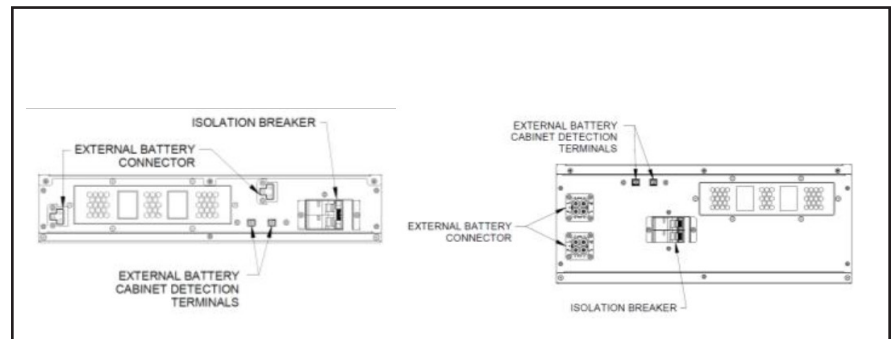


Table 1-1 Mechanical specifications

Model	Dimension (D × W × H) mm (in)	Weight kg (lb) (with battery)
GXT5-EBC144VRT2U	650(25.6) × 430(18) × 85(3.35)	45.3 (100)
GXT5-EBC288VRT4U	650(25.6 × 430(18) × 173(8.8)	76 (167.5)

Table 1-2 Environmental specifications

Parameter	Recommended range
Ambient temperature	0 °C to 50 °C
Relative humidity	0%RH ~ 90%RH (non-condensing)
Altitude	≤ 3000m

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, avoid direct sunlight
- Far 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 adopts a rack installation.

2.4 Installation in a Rack

1. Locate the accessory brackets and M4 screws. Use the screws to install 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 on to the rack.

Figure 2-1 Bracket Handle Installation



3 Cable Connection

Notes

- Different UPSs cannot share the same battery group, or the UPSs 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 144Vdc for Liebert® GXT5-EBC144VRT2U battery cabinet and at least 288Vdc for Liebert® GXT5-EBC288VRT4U battery cabinet.
- The battery cabinet is delivered with a 0.457m long battery cable (600mm for 144V, 457mm for 288V). Users should not use their own cable.
- Before connecting or replacing the battery cable, open the BATTERY BREAKER of 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 of the battery cabinet.
2. Connect 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 of 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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