

# Vertiv™ Liebert® GXT5 UPS



5000VA HV, 208V (L1, L2, G) IN, 208V OUT

GXT5-5000HVRT5UXLN

## Quick Installation Guide



Thank you for your recent purchase of a Vertiv UPS! We appreciate your business and are confident that your new product will provide many years of uninterruptible power to your connected equipment. With this purchase, you may also want to consider Vertiv's complete line-up of Racks, PDU's, Thermal Solutions, KVM Switches, and Serial Consoles. Vertiv also offers a broad array of Services and Extended Warranties. If you require any support, please don't hesitate to reach out to Vertiv or one of our Resellers or Local Rep Firms. We stand ready to support you.

We sincerely hope that you'll continue to select Vertiv for all of your future infrastructure needs!

The Vertiv Team

**IMPORTANT:** Before installing, connecting to supply or operating your Vertiv™ 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](http://www.Vertiv.com).

## Installation

### 1. Inspecting the UPS

Inspect the UPS for any signs of obvious damage. If damage is visible, do not proceed and call our warranty support line for assistance at 1-800-222-5877 menu option 3, or email at [microups.warranty@vertiv.com](mailto:microups.warranty@vertiv.com).

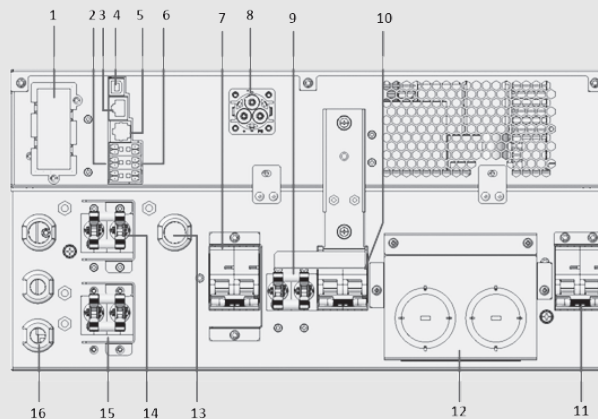
### 2. Choosing a location

Install the UPS in a temperature-controlled environment that is free of corrosive and conductive contaminants. Avoid locations near heat or water sources and exposed to direct sunlight. For proper ventilation, leave four inches clearance on all sides of the UPS.

The input outlet should be nearby and easily accessible.

**NOTE:** The UPS has a gravity-sensor function that automatically rotates the LCD display depending on rack or tower installation.

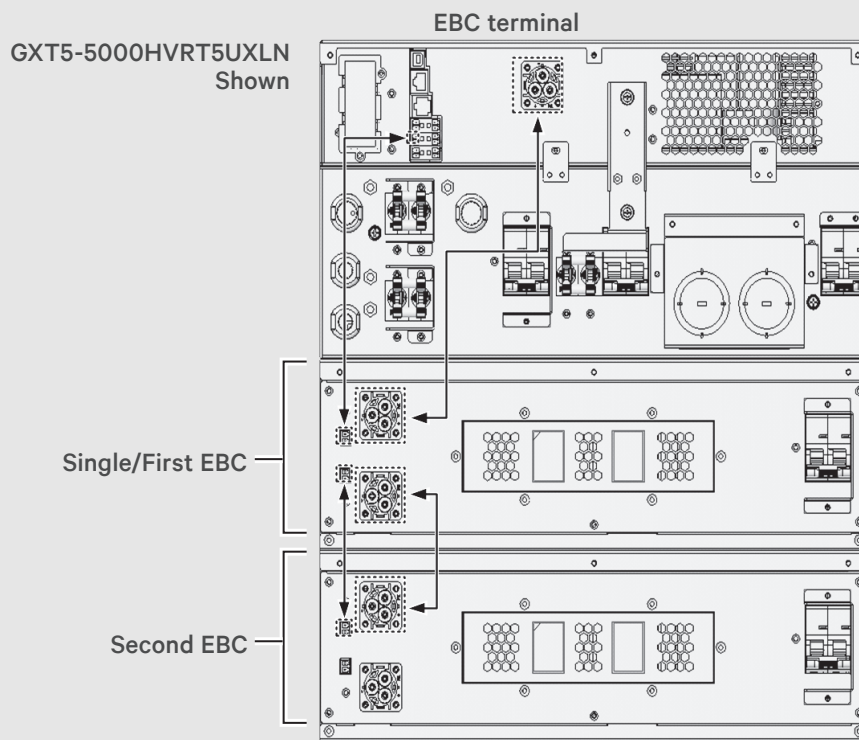
## REAR PANEL OF GXT5-5000HVRT5UXLN



### Liebert GXT5 UPS

#	Description
1	Vertiv™ Liebert® IntelliSlot port
2	Dry-contacts, Battery Detection (3)
3	RS-485 port- Used for external temperature sensors
4	USB port
5	RS-232 port- Used for CLI
6	REPO connector
7	Output receptacle breaker
8	External battery cabinet connector
9	Programmable receptacle maintenance bypass breaker
10	Maintenance-bypass breaker
11	Input circuit breaker
12	Removable junction box with knockouts for hardwire I/O
13	L6-30R output receptacle (2x)
14	L6-30R output breaker
15	Programmable L6-20R output breaker
16	Programmable L6-20R output receptacle (2x)

## Liebert® GXT5 UPS to External Battery Cabinet Connections



### 3. Installing the UPS

The UPS and optional External Battery Cabinets may be installed in either a tower or rack configuration.

- For tower installation, assemble and attach the tower support stands and spacers.
- For rack installation:

1. Remove internal batteries from the UPS so it can be relocated into the rack more easily, attach the handles to the UPS.

2. Install the rail kit in the rack.

3. Install the UPS in the rack.

**NOTE:** Align shelf of rack kit with rack U number for proper alignment.

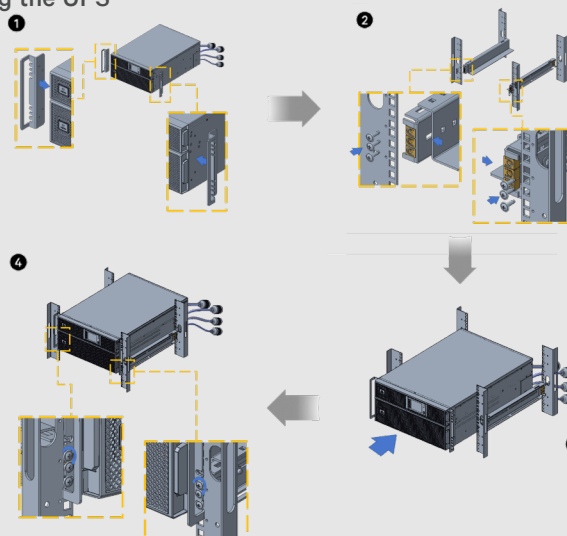
4. Secure the handles to the rack.

After UPS installation, reinstall internal batteries.

#### WIRING

Recommended external breaker	50 A
Recommended wire (all wires)	8 AWG (10 mm <sup>2</sup> ) 75 °C copper wire
Maximum wire accepted by terminal block	6 AWG (16 mm <sup>2</sup> )
Terminal-block torque	20 in-lb (2.26 Nm)

#### Installing the UPS



## Connections

### 4. Connecting External Battery Cabinet (Optional)

External Battery Cabinets (EBC) provide longer battery run-time for connected devices. Refer to Liebert GXT5 User Guide, to select the appropriate model and quantity for your Liebert GXT5 model and applications.

- Verify that the EBC breaker is in the “Off” position.
- Connect one end of the supplied EBC cable to the UPS battery connector and autodetect port (terminal block 3) and one end to the EBC’s battery connector and autodetect port. If connecting more than one EBC, connect one end of the external battery cable to the second set of connectors on the battery cabinet, then connect the other end to the next battery cabinet.

### 5. Connecting AC Input

Refer to the wiring table above for the recommended overcurrent protection.

Refer to the figure at the upper right for the terminal block connections. Connect to an input-power supply that is properly protected by a circuit breaker in accordance with national and local electrical codes.

**NOTE:** Allow the batteries to charge at least 8 hours before first start-up to ensure adequate backup time. The batteries charge when the UPS is connected to AC input regardless of the off/on status of the UPS.



## Powering the UPS

**NOTE:** Do not start the UPS until the installation is finished, the system is commissioned by an authorized engineer, and the external input circuit breakers are closed.

1. Make sure the maintenance bypass switch is in the open “OFF” position and that the guard is secured in place.
2. Ensure that the REPO connector on the rear of the unit has a jumper between pins 1-2 or that it is properly wired to an Emergency Power-Off circuit (normally closed).
3. Make sure the breaker supplying power to the UPS is closed, and close the input breaker on the rear of the UPS.
4. If necessary, use the LCD display or a connected computer to adjust any required settings. (Refer to the User Guide for configuration set up).
5. Close all output breakers on the rear of the UPS (or in an external panel board, if used).
6. If external battery cabinets are included, close the breakers on the rear of each cabinet.
7. Power-on the UPS using the Operation and Display Panel (see the illustration above) by pressing and holding the power button until the confirmation dialog appears. Use the Up/Down arrows to select “YES”, then press Enter.

**NOTE:** During operation, the UPS may sound an alarm as the output receptacles are powered. You may press the Esc button for 2 seconds to silence the audible alarm.

Terminal Block Connections

L1	L2/N			L1	L2/N
Output			Input		

Operation and Display Panel



**FEATURE:** Vertiv™ Power Assist is a free software available to Vertiv customers for monitoring your equipment protecting your data and stay up to date on device current state.

Please use the link below to download the software:

<https://www.vertiv.com/en-us/products-catalog/monitoring-control-and-management/software/vertiv-power-insight-application/>



**To contact Vertiv Technical Support: visit [www.Vertiv.com](http://www.Vertiv.com)**

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