Vertiv™ Liebert® GXT5 UPS
15-20KVA, MV
208V IN, 120V/208V OUT
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 of racks, PDUs, thermal solutions, KVM switches, and serial consoles. Vertiv also offers a broad array of services and extended warranties. If you require any assistance or support please don't hesitate to reach out to one of our resellers, local rep firms, or directly to us at 1-800-222-5877 menu option 3, or email at microups.warranty@vertiv.com. 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.*
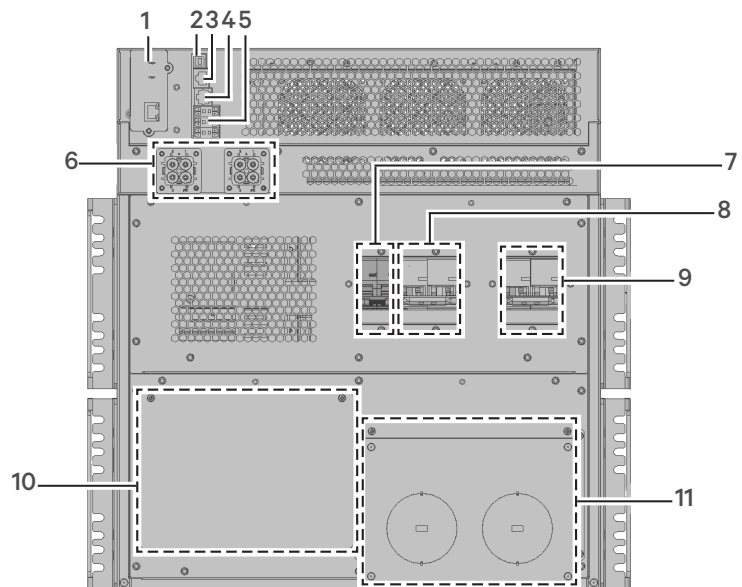
Installation

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.

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.

Rear Panel of GXT5 UPS 15/20KMVRT11UXLN

#	Description
1	Liebert® IntelliSlot Port
2	USB port
3	RS-485 port - Used for external temperature sensors
4	RS-232 port - Used for CLI
5	Dry-contacts, Battery Detection (3), REPO input (REPO)
6	External-battery-cabinet connector
7	POD breaker
8	Output breaker
9	Input breaker
10	Cover for power-distribution box connector
11	Knockouts for hard-wired input and output

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

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. Attach the handles to the UPS.
  2. Install the rail kit in the rack.

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

  3. Install the UPS in the rack.
  4. Secure the handles to the rack.

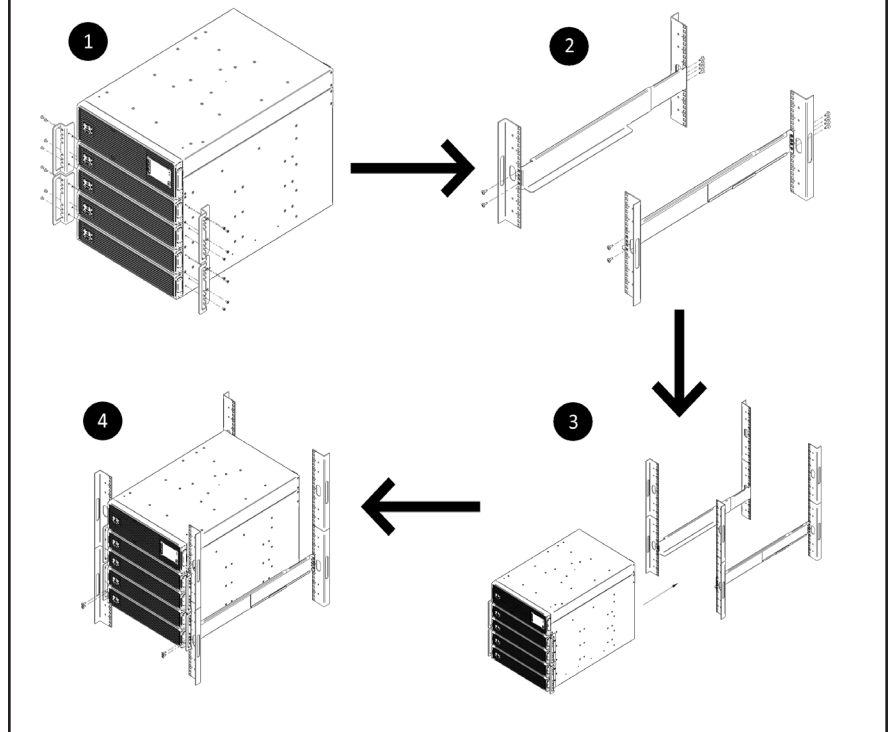After UPS installation, install internal batteries shipped in separate box.

Connections

4. Connecting External Battery Cabinet (Optional)

External Battery Cabinets (EBC) provide longer battery run-time for connected devices. For these models, EBCs must be installed in pairs. An odd number of EBCs is not a valid configuration.

- Verify that each EBC breaker is in the "Off" position.
- Connect one of the ends of each of the EBC cables to the UPS. Connect the other end of each cable to one of the EBCs in the first pair.
- If connecting more than two external batteries, connect one end of the external battery cable to the second connector on the battery cabinet, then connect the other end to the next battery cabinet.

Liebert GXT5 UPS Rack Installation

- Bundled with the EBC cable is a small autodetection cable with a 2 pin terminal block on either end. Connect the autodetect cables to the UPS and the first EBC in each pair only. Do not connect autodetection cables to the second EBC in any pair. The "X' indicates leave connector unplugged.

5. Installing an Optional POD

If using an optional POD, refer to the installation instructions included with the POD kit to remove the power-distribution box cover and install the new POD.

Connect the equipment to be protected to the output receptacles.

6. Connecting AC Input

- Remove the conduit-entry knockouts, and install input and output wiring in separate conduit.
- Refer to the figure below 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 back-up time. The batteries charge when the UPS is connected to AC input regardles of the off/on status of the UPS.*
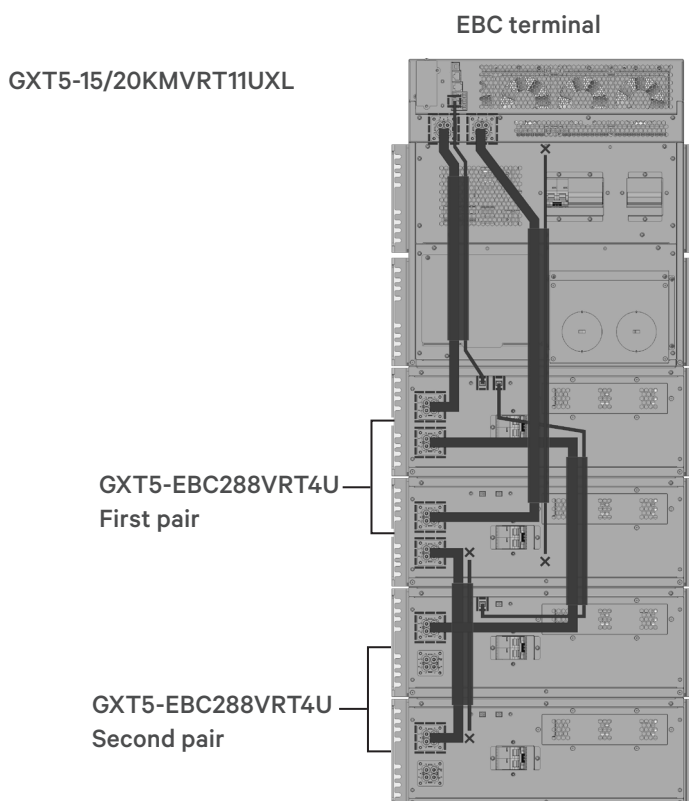
Powering the UPS

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. 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).

2. Make sure the breaker supplying power to the UPS is closed, and close the input breaker on the rear of the UPS.

3. If necessary, use the LCD display or a connected computer to adjust any required settings. (Refer to the User Guide for configuration set up).

4. Close all output breakers on the rear of the UPS (or in an external panel board, if used).

5. If external battery cabinets are included, close the breakers on the rear of each cabinet.

6. 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.

Liebert GXT5 UPS to External Battery Cabinet Connections

EBC terminal

GXT5-15/20KMVRT11UXL

GXT5-EBC288VRT4U
First pair

GXT5-EBC288VRT4U
Second pair

WIRING	15 kVA	20 kVA
Recommended external breaker	125 A	
Recommended wire (all wires)	1 AWG (45 mm²)	1/0 AWG (55 mm²)
	90 °C copper wire	
Maximum wire accepted by terminal block	1/0 AWG (55 mm²)	
Terminal-block torque	110 lb-in (12.4 Nm)	

Terminal Block Connections

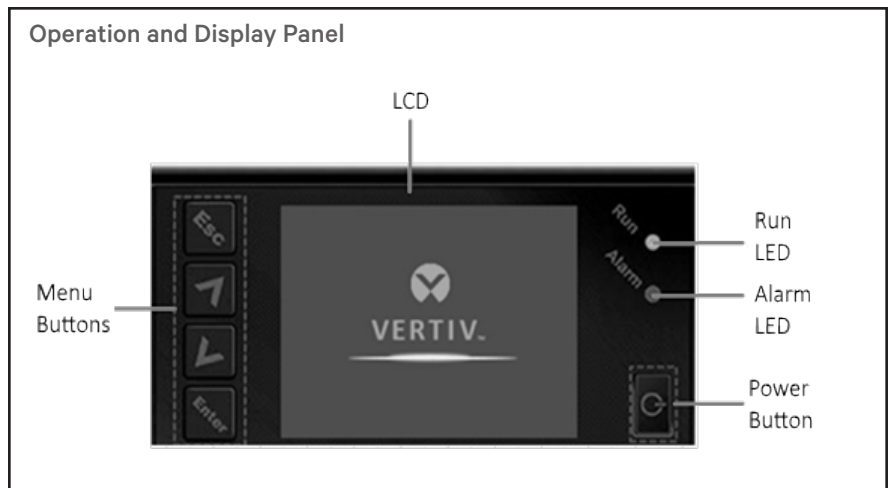| ⏚	L2	N	L1	⏚	L2	N	L1
Output				Input			

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.*

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/

Operation and Display Panel

LCD

Menu Buttons

Run LED

Alarm LED

Power Button