Vertiv™ Liebert® GXT5 UPS

5 - 20 kVA 230V

Intelligent and Efficient UPS for Protection of Your Mission-Critical Applications

Largest Rack Mount Capacity Available in an Intelligent, Efficient UPS for Protection of Mission-Critical Applications

The Vertiv™ Liebert® GXT5 UPS is an online double conversion UPS solution which offers premium power outage protection and continuous power conditioning in a compact and flexible rack/tower form factor.

The Liebert GXT5 single-phase UPS operates with high power efficiency, making it ideally suited to protect critical infrastructure in both centralized and edge network applications.

Now available in higher capacity ratings of 16 and 20 kVA the GXT5 UPS allows for highly reliable single UPS installations minimizing required rack space and supporting more IT equipment loads.

Scalable runtime options with matching external battery cabinets offer additional flexibility when extended uninterrupted power is required. Plus, the Liebert GXT5 provides battery health status and replacement date prediction for intelligent battery health management.

The UPS system is easy to deploy and maintain due to its user-friendly LCD interface and remote management capabilities supported by the Vertiv RDU101 communications card which makes the Liebert GXT5 compatible with Vertiv infrastructure management solutions such as LIFE™ Services, environmental sensors, *Trellis*™ Power Insight, and more.

With market leading efficiency and unity power factor operation, the Liebert GXT5 will meet your critical application needs. And you can rest assured that your business is protected with this Vertiv solution that includes a standard, two-year advanced exchange product warranty.

What's in the box

- UPS
- Tower Stand
- USB Cable
- Quick Start Guide
- Safety Manual
- Power Insight Management Software (free download from Vertiv.com)

Liebert GXT5 Features

Leading UPS Technology

- High output power factor up to 1.0
- Full-color graphic LCD with gravity sensing orientation
- External battery cabinets with auto-detection
- Parallel or redundant operation capability
- Battery health status and replacement date prediction
- Remote management, update, and configuration capabilities
- Optimized thermal management and variable speed fan for peak efficiency and noise reduction

Efficient and Green Product

- High efficiency in online mode
- Energy Star® 2.0 certified
- Even higher efficiency (up to 98%) in Active ECO mode
- Compliance with Restriction of Hazardous Substances (RoHS) directive and the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) regulation

Solutions Wide

- Compact rack/tower design
- Broad range of services and extended warranty
- Easy to install, configure and operate
- Vertiv RDU101 network communications card with advanced features
- Compatibility with SN series environmental sensors
- Integrated dry-contacts with selectable definition
- Free *Trellis*™ Power Insight management software
- Serial port for out-of-band management with Avocent® serial consoles
- Automatic internal bypass and external maintenance bypass options

Vertiv™ Liebert® GXT5 Features

High power factor (1.0)
More usable power enables more connected loads saving space and costs.

Efficiency (up to 95%) in online mode
Energy Star 2.0 certification. Higher efficiency means an optimized energy management and lower heat dissipation, for energy savings and improved reliability.

Compact rack/ tower design
Space-saving UPS provides rack space optimization and flexible installation.

Parallel/redundant operation capability
For 10, 16 or 20 kVA models, configurations up to 2+1 redundancy support maximum availability and enables growth as load demand increases.

Colored graphic LCD with gravity sensitive orientation
User-friendly interface provides insight to UPS status for easy installation, configuration and operation.

Integrated Battery
With self-test and detection capability

Battery Cabinets with auto-detection
Be confident the UPS is set up correctly to report available runtime when used with external battery cabinets.

Efficiency (up to 98%) in Active ECO mode
Superior protection with maximum efficiency.

Product warranty
Comprehensive coverage through a standard two-year advanced exchange warranty.

How You Benefit from the Vertiv™ Liebert® GXT5 UPS

Designed for high availability

- Higher power factor (1.0) ensures the connection of more loads and IT equipment
- Available rack mount maintenance bypass solution eliminates the need to power down connected equipment (16-20) kVA
- Device can be swapped during operation without powering down connected equipment thanks to manual bypass pod integrated in the device (removable connetion box), (5-10) kVA
- Optional output distribution POD for flexibility of connected equipment needs
- Hot-swappable, user-replaceable battery modules minimize downtime
- LIFE™ Services helps to enhance uptime, as well as operational efficiency with continuous remote monitoring, expert analysis, and proactive response
- Automatic programmable battery self-test

User-friendly installation and operation

- Easy-to-read, gravity-sensing graphical color display
- Intuitive user interface for local configuration and management
- Support for the Vertiv suite of remote management tools (*Trellis*™ Power Insight, RDU101 network interface card, and serial connectivity support)
- Auto-detection of external battery cabinets enables faster deployment and accurate runtime information
- Remote UPS firmware upgrade capability ensures the UPS has the latest features and enhancements

Longer service life and runtime of the batteries

- Extended runtimes provided by the addition of external battery cabinets
- Improved battery care by temperature-compensated battery charging
- Intelligent battery health management ensures a longer service life (optimized battery maintenance and replacement when needed)

Optimized energy and capacity management

- Active ECO operating mode with up to 98% efficiency
- Efficiency in online double conversion mode up to 95%
- Energy Star 2.0 certified

Seamless connectivity

- Four onboard, user-definable dry contact I/O for integration of support management systems
- Supports SNMP, web, and environmental sensors with the optional RDU101 communications card
- Serial connection for integration of Avocent® ACS product or direct serial management and control of the UPS

Vertiv™ LIFE™ Services Remote Diagnostic and Preventive Monitoring

Vertiv's service program is designed to ensure that your critical power protection system is maintained in an optimum state of readiness at all times.

The Vertiv LIFE™ remote diagnostic and preventive monitoring service provides early warning of UPS conditions and out of tolerances. This allows effective proactive maintenance,fast incident response and remote trouble shooting, giving customers complete security and peace of mind.

With Vertiv LIFE Services you will benefit from:

Uptime Assurance

Constant monitoring of UPS parameters, thus maximizing the availability of your critical infrastructure.

First Time Fix Rate

Pro-active monitoring and data measuring ensure that when our customer engineers are dispatched on-site, they arrive prepared for first time resolution.

Proactive Analysis

From Vertiv LIFE Services centers, our experts proactively analyze the data and trends of your equipment, to recommend actions to ensure their best performance.

Minimized Total Cost of Ownership of Your Equipment

The continuous monitoring of all relevant parameters in turn maximizes unit performance, reduces on-site maintenance and extends the life of your equipment.

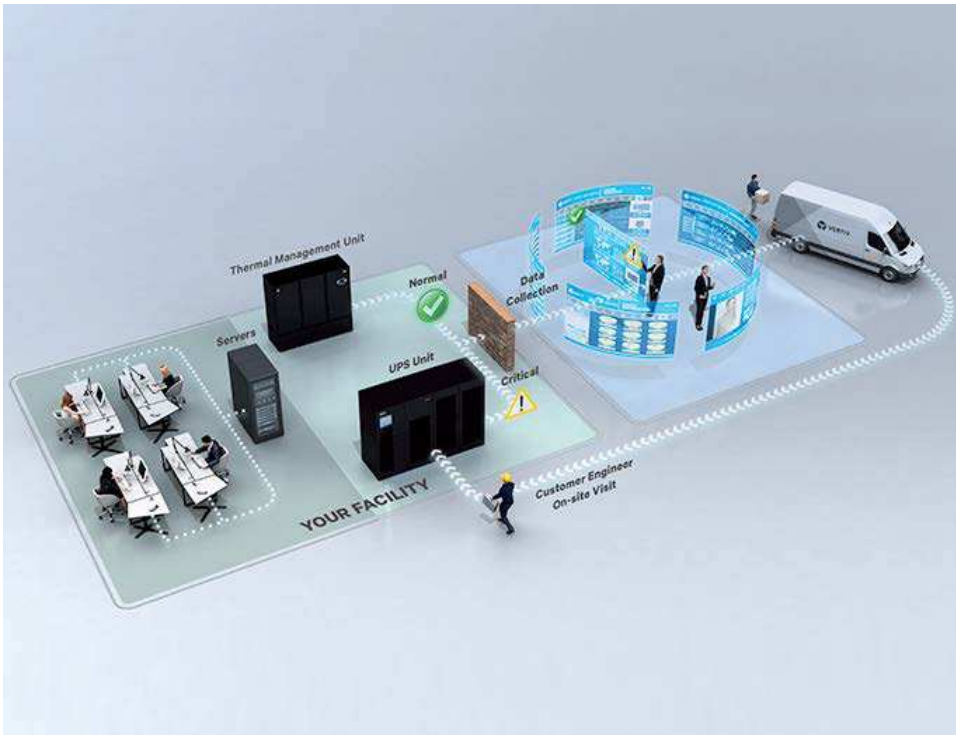
Fast Incident Response

Vertiv LIFE Services allow for immediate definition of the best course of action, as a result of the regular communication between your Liebert GXT5 system and our Vertiv LIFE Services centers.

Reporting

You will receive a comprehensive report detailing the working order of your equip mentand its operational performance.

Remote Diagnostic Services for Rapid Response



Refer to page 11 for service offerings' SKUs

Uptime assurance

- Continuous monitoring for early detection of trends and operating anomalies
- Analysis and interpretation of alarm and status messages

Rapid incident response

- Automatic transmission of data for analysis
- Concurrent diagnosis and dispatch of engineer to site
- Shipment of parts for corrective maintenance

Increased insight and ease of management

- Notification of operating conditions that may impact system health
- Periodic trend and analysis reports
- Integration of remote and on-site services to ensure business continuity

Technical Specifications 5-10 kVA

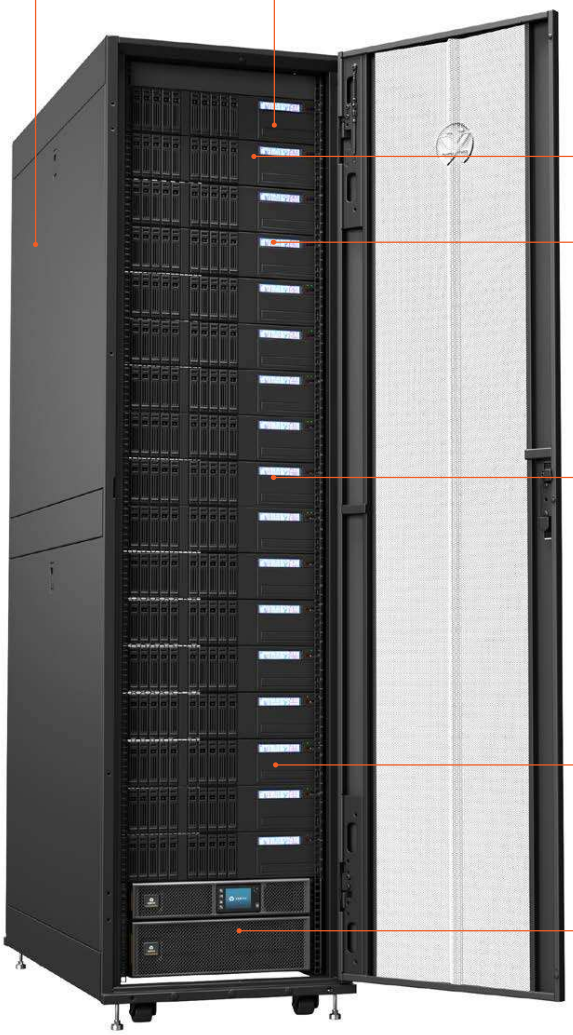
	GXT5-5000IRT5UXLE	GXT5-6000IRT5UXLE	GXT5-8000IRT5UXLE	GXT5-10KIRT5UXLE
Ratings (VA/W)	5000 VA / 5000 W	6000 VA / 6000 W	8000 VA / 8000 W	10,000 VA / 10,000 W
Dimensions, inches (mm)				
Unit W x D X H	16.9×24.8×8.5 (430×630×394)	16.9×24.8×8.5 (430×630×394)	16.9×24.8×8.5 (430×630×394)	16.9×24.8×8.5 (430×630×394)
Weight, pounds (kg)				
Unit	156 (70.8)	298 (135.2)	298 (135.2)	298 (135.2)
Input AC Parameters				
Operating Frequency, Nominal	50 or 60Hz (Factory Default is 50)	50 or 60Hz (Factory Default is 50)	50 or 60Hz (Factory Default is 50)	50 or 60 Hz (factory-default is 50 Hz)
Voltage Range	230 VAC	230 VAC	230 VAC	230 VAC
Input Wiring	Hardwire	Hardwire	Hardwire (common or split bypass)	Hardwire (common or split bypass)
Output AC Parameters				
Output Receptacles	Hardwire 2 (C19), 6 (C13)	Hardwire 2 (C19), 6 (C13)	Hardwire 4 (C19), 4(C13)	Hardwire 4 (C19), 4(C13)
Factory-default VAC Frequency	230 VAC 50Hz or 60Hz, Nominal	230 VAC 50Hz or 60Hz, Nominal	230 VAC 50Hz or 60Hz, Nominal	230 VAC 50Hz or 60Hz, Nominal
Waveform (On Battery)	Sinewave	Sinewave	Sinewave	Sinewave
Utility (AC) Mode Overload	>150% for Minimum 200mS; 125 - 150% for 60 seconds; 105-125% 5 Minutes; ≤105 % Continuous	>150% for Minimum 200mS; 125 - 150% for 60 seconds; 105-125% 5 Minutes; ≤105 % Continuous	>150% for Minimum 200mS; 125 - 150% for 60 seconds; 105-125% 5 Minutes; ≤105 % Continuous	>150% for Minimum 200mS; 125 - 150% for 60 seconds; 105-125% 5 Minutes; ≤105 % Continuous
Battery				
Type	Valve-regulated, non-spillable, lead acid	Valve-regulated, non-spillable, lead acid	Valve-regulated, non-spillable, lead acid	Valve-regulated, non-spillable, lead acid
Backup Time (100% Load)	7 Minutes	5.5 Minutes	3.5 Minutes	2 Minutes
Backup Time (50% Load)	18.5 Minutes	14.5 Minutes	9.5 Minutes	7 Minutes
+1 External Battery Cabinet (100% Load)	19 Minutes	14.5 Minutes	9.5 Minutes	7 Minutes
+1 External Battery Cabinet (50% Load)	48 Minutes	38.5 Minutes	26 Minutes	19 Minutes
Environmental Requirements				
Operating Temperature, °F (°C)	+32 to +104 (0 to 40) (no derating)	+32 to +104 (0 to 40) (no derating)	+32 to +104 (0 to 40) (no derating)	+32 to +104 (0 to 40) (no derating)
Storage Temperature, °F (°C)	+5 to +122 (-15 to 50)	+5 to +122 (-15 to 50)	+5 to +122 (-15 to 50)	+5 to +122 (-15 to 50)
Relative Humidity	0% to 95%, non-condensing	0% to 95%, non-condensing	0% to 95%, non-condensing	0% to 95%, non-condensing
Operating Elevation	Up to 10,000 ft (3,000 m) at 77°F (25°C) without derating	Up to 10,000 ft (3,000 m) at 77°F (25°C) without derating	Up to 10,000 ft (3,000 m) at 77°F (25°C) without derating	Up to 10,000 ft (3,000 m) at 77°F (25°C) without derating
Audible Noise	<55 dBA, at 1 meter from the rear <50 dBA, at 1 meter from the front or sides	<55 dBA, at 1 meter from the rear <50 dBA, at 1 meter from the front or sides	<55 dBA, at 1 meter from the rear <50 dBA, at 1 meter from the front or sides	<55 dBA, at 1 meter from the rear <50 dBA, at 1 meter from the front or sides
Agency				
Surge Immunity	IEC/EN EN61000-4-5, Level 3, Criteria A	IEC/EN EN61000-4-5, Level 3, Criteria A	IEC/EN EN61000-4-5, Level 3, Criteria A	IEC/EN EN61000-4-5, Level 3, Criteria A
Transportation	ISTA Procedure 1E	ISTA Procedure 1E	ISTA Procedure 1E	ISTA Procedure 1E
Safety	IEC62040-1:2008 version, GS mark	IEC62040-1:2008 version, GS mark	IEC62040-1:2008 version, GS mark	IEC62040-1:2008 version, GS mark
Emissions	IEC/EN/AS 62040-2 2nd Ed (Cat 2)	IEC/EN/AS 62040-2 2nd Ed (Cat 2)	IEC/EN/AS 62040-2 2nd Ed (Cat 2)	IEC/EN/AS 62040-2 2nd Ed (Cat 2)
Warranty				
	Std. 2 year; Opt. 1 and 3 year extension	Std. 2 year; Opt. 1 and 3 year extension	Std. 2 year; Opt. 1 and 3 year extension	Std. 2 year; Opt. 1 and 3 year extension

Technical Specifications 16-20 kVA

	16KIRT9UXLE	20KIRT9UXLE
Ratings (VA/W)	16000 VA/16000 W	20000 VA/20000 W
Dimensions, inches (mm)		
Unit W x D X H	16.9×24.8×15.5 (430×630×394)	16.9×24.8×15.5 (430×630×394)
Weight, pounds (kg)		
Unit	298 (135.2)	298 (135.2)
Input AC Parameters		
Operating Frequency, Nominal	50 or 60 Hz (factory-default is 50 Hz)	50 or 60 Hz (factory-default is 50 Hz)
Voltage Range	288 VAC	288 VAC
Input Wiring	Input terminal block	Input terminal block
Output AC Parameters		
Output Receptacles	Output terminal block	Output terminal block
Factory-default VAC Frequency	230 VAC, 50 Hz	230 VAC, 50 Hz
Waveform (On Battery)	Sinewave	Sinewave
Utility (AC) Mode Overload	> 150% minimum 200 ms	> 150% minimum 200 ms
Battery		
Type	Valve-regulated, non-spillable, lead acid	Valve-regulated, non-spillable, lead acid
Backup Time (100% Load)	3.5 Minutes	2.5 Minutes
Backup Time (50% Load)	9.5 Minutes	7 Minutes
+1 External Battery Cabinet (100% Load)	10 Minutes	7 Minutes
+1 External Battery Cabinet (50% Load)	26.5 Minutes	19.5 Minutes
Environmental Requirements		
Operating Temperature, °F (°C)	+32 to +104 (0 to 40) (no derating)	+32 to +104 (0 to 40) (no derating)
Storage Temperature, °F (°C)	+5 to +104 (-15 to 40)	+5 to +104 (-15 to 40)
Relative Humidity	0% to 95%, non-condensing	0% to 95%, non-condensing
Operating Elevation	Up to 10,000 ft (3,000 m) at 77°F (25°C) without derating	Up to 10,000 ft (3,000 m) at 77°F (25°C) without derating
Audible Noise	<58 dBA, at 1 meter from the front	<58 dBA, at 1 meter from the front
Agency		
Surge Immunity	IEC/EN EN61000-4-5, Level 4, Criteria A; ANSI C62 41 Category B	IEC/EN EN61000-4-5, Level 4, Criteria A; ANSI C62 41 Category B
Transportation	ISTA Procedure 1E	ISTA Procedure 1E
Safety	UL1778, c-UL listed	UL1778, c-UL listed
Emissions	FCC Part 15 (Class A)	FCC Part 15 (Class A)
Warranty		
	Std. 2 year; Opt. 1 and 3 year extension	Std. 2 year; Opt. 1 and 3 year extension

Vertiv™ VR Rack
Supports a wide variety of equipment and gives you the flexibility you need with easy installation

Vertiv™ Geist™ rPDU
Reliably distributes power to the rack, supporting dynamic data center operations and DCIM



Vertiv™ SwitchAir
Prevents overheating of network switches by directing cool air to switch intakes, keeping hot exhaust air out

Vertiv™ ACS Console
Enables integrated remote monitoring, out-of-band management, and IoT connectivity

Vertiv™ KVM Switch
Enables single-point access for switching between multiple computers

Vertiv™ Rack Cooling
Provides energy-efficient cooling close to the IT equipment and UPS units

Vertiv™ Liebert® GXT5
Helps protect mission-critical equipment from all power disturbances due to blackouts, brownouts, sags, surges or noise interference

Accessories

Racks and enclosures: Support a wide variety of equipment with the Vertiv™ VR Rack including servers, storage, switches, routers, PDUs, UPS units, console port servers, and KVM switches.

Rails and mounting hardware: Install equipment with a four-post rail kit and hardware for mounting in a 19- or 23-inch rack or choose a two-post telecom rack for front- or mid-chassis, wall, or Zero U configuration.

Rack mount PDUs: For basic or intelligent power distribution that helps prevent overloaded circuits in the data center, choose from products such as upgradable PDUs, inline power meters, transfer switches, and monitoring sensors.

Extended battery modules: Enable scalable runtime for support during extended power outage situations by adding reliable power and protection to new or existing deployments.

Environmental sensor: Maintain knowledge of remote environments with temperature, humidity and leak detection, or monitor available dry-contact sensors for security access control or smoke detection.

Available Accessories for the Vertiv™ Liebert® GXT5 UPS

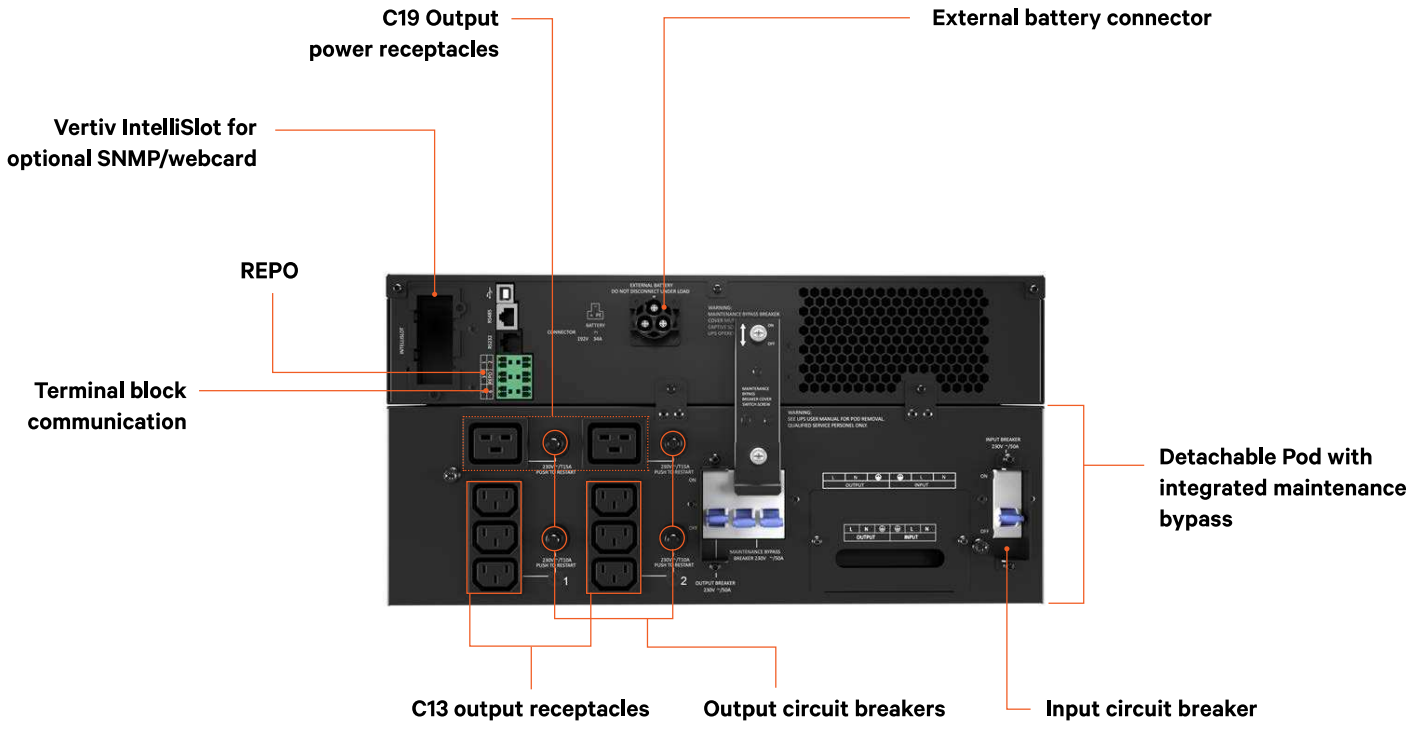
External battery cabinets and replacement battery kits

UPS	External battery cabinets	Replacement battery kits
GXT5-5000IRT5UXLE	GXT5-EBC192VRT3U	GXT5-9A96BATKIT (x 2pcs)
GXT5-6000IRT5UXLE	GXT5-EBC192VRT3U	GXT5-9A96BATKIT (x 2pcs)
GXT5-8000IRT5UXLE	GXT5-EBC192VRT3U	GXT5-9A96BATKIT (x 2pcs)
GXT5-10000IRT5UXLE	GXT5-EBC192VRT3U	GXT5-9A96BATKIT (x 2pcs)
GXT5-16kRT9UXLE	GXT5-EBC384VRT6U	GXT5-9A96BATKIT (x 4pcs)
GXT5-20kRT9UXLE	GXT5-EBC384VRT6U	GXT5-9A96BATKIT (x 4pcs)

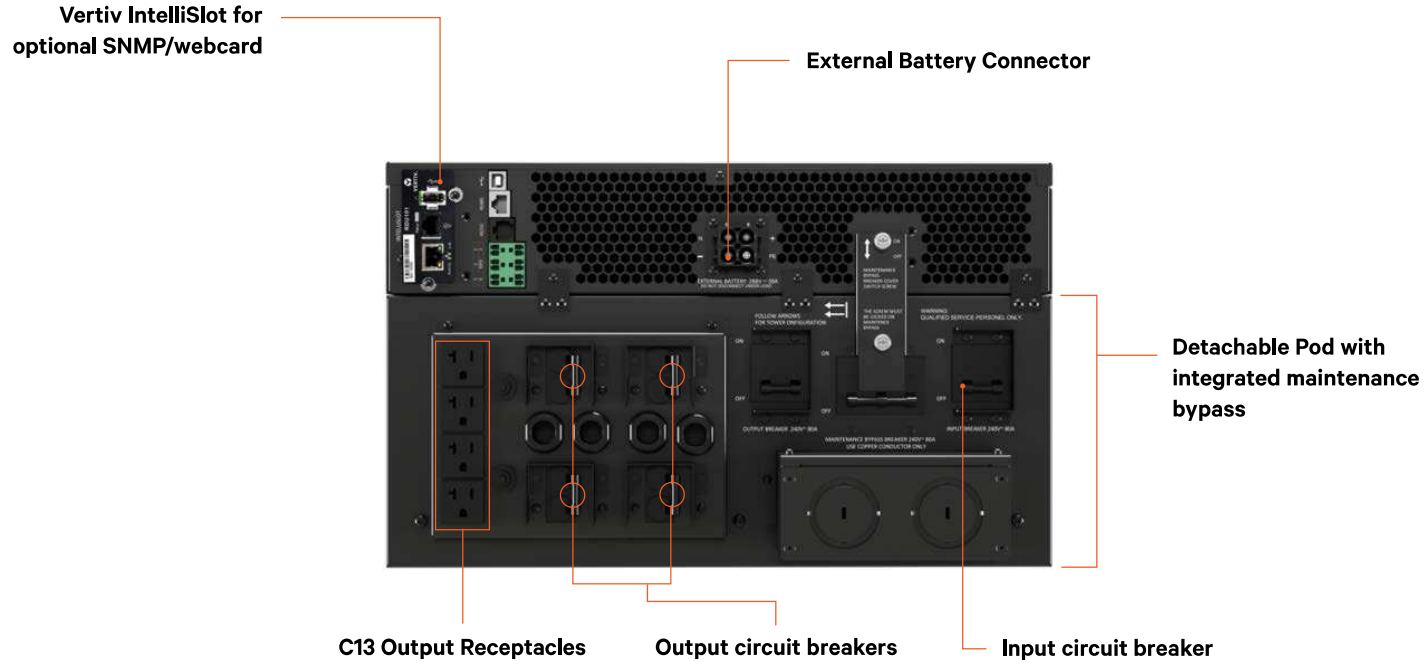
Network communications and environmental sensors

Network Communications	RDU101	Intellislot web card for SNMP and web management. Supports environmental sensors.
	IS-RELAY	Intellislot Interface Kit for Relay Contacts
Environmental Sensors (Compatible with optional Liebert® network card RDU 101)	SN-Z01	Integrated cable with single temperature sensor
	SN-Z02	Integrated cable with three temperature sensors
	SN-Z03	Integrated cable with three temperature and one humidity sensors
	SN-T	Modular with single temperature sensor
	SN-TH	Modular with single temperature and single humidity sensor
	SN-2D	Modular with two door contact inputs
	SN-3C	Modular with three dry contact inputs
	SN-L20	Modular leak zone sensor with 20 foot cable (Liebert RDU-S only)
UPS manageability options	*Trellis*™ Power Insight Software Management	*Trellis*™ Power Insight is a complimentary web-based software designed to monitor up to 100 Vertiv™ UPSs and rPDUs

Liebert® GXT5 Rear Panel (5-6 kVA)



Liebert® GXT5 Rear Panel (8-10 kVA)



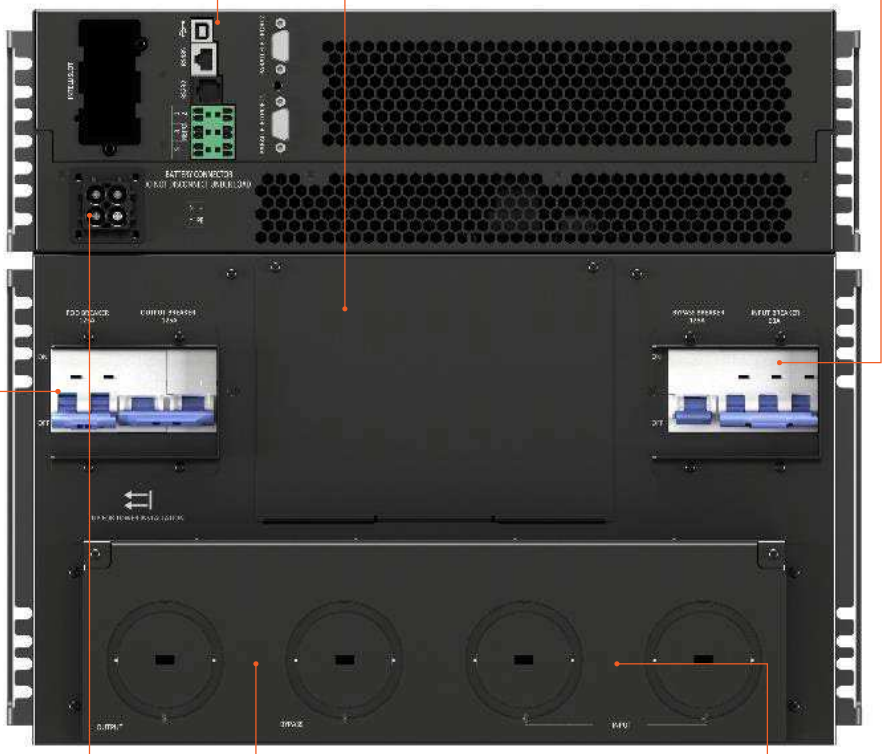
Liebert® GXT5 Rear Panel (16-20 kVA)

***Optional RDU101 Network Communication**
Local Web and SNMP interface. Management and notification across networks.

Communications
Multiple management options for local and remote setup configuration and control of the UPS any time.

Optional Output POD
Multiple options for local receptacles C13/C19 options.

Input Protection
Prevent equipment damage from a short circuit of overload.



Output Protection
UPS and POD output circuit breaker protection.

External Battery Cabinet Connector
Scalable runtime in rack mount configurations. Longer runtimes for critical work completion, work load migration and critical equipment shutdown.

Hardwire Output Connection
Output to panel board distribution or rack PDU for management and control to rack level equipment.

Hardwire Input Connection
For easy installation and reach to available power source.

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SL-70564 (R1/20)