



Product brochure

Vertiv™ Liebert® GXT5 UPS

15-20kVA 208/120VAC

UPS for protection of your
mission-critical applications.



Intelligent and efficient UPS for protection of your 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 Vertiv™ 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.

Scalable runtime options with matching external battery cabinets offer additional flexibility when extended uninterrupted power is required. Plus, the Vertiv 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 supported by the Vertiv™ Liebert® IntelliSlot™ RDU120 communications card which makes the Vertiv Liebert GXT5 compatible with Vertiv infrastructure management solutions such as Vertiv™ LIFE™ Services, environmental sensors, Vertiv™ Power Insight, and more.

With high online efficiency and unity power factor operation, the Vertiv 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, three-year advanced exchange product warranty.

What's in the box

- UPS
- Pre-installed Vertiv™ Liebert® IntelliSlot™ RDU120 communications card (NIC)
- Tower stand
- 4-post rack mounting kit
- USB cable
- Quick start guide
- Safety manual
- Factory test report
- [Free Vertiv™ Power Insight management software](#) (Free download)



Vertiv™ Liebert® GXT5 Features

Leading UPS technology

- Unity output power factor (1.0) and enough capacity to power multiple racks or a networking closet
- Full-color graphic LCD with gravity sensing orientation
- Optional external rack-mount maintenance bypass cabinet
- Automatic internal bypass
- External battery cabinets with auto-detection
- Output distribution options w/ interchangeable POD's
- Battery health status and replacement date prediction
- Remote management, update, and configuration
- Optimized thermal management and variable speed fan

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

- 3 year warranty
- Compact rack/tower design
- Broad range of services and extended warranty
- Easy to install, configure and operate
- Vertiv Liebert IntelliSlot RDU120 network communications card with advanced features
- Compatibility with environmental sensors
- Integrated dry-contacts with selectable definition
- Free Vertiv™ Power Insight management software
- Serial port for out-of-band management with Vertiv™ Avocent® serial consoles



Vertiv™ Liebert® GXT5 Features



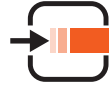
Unity power factor

More usable power enables more connected loads saving space and costs.



Colored graphic LCD with gravity sensitive orientation

User-friendly interface provides insight to UPS status for easy installation, configuration and operation.



High power capacity

15kVA and 20kVA capacities offer enough power for row and room-based applications.



High efficiency

Energy Star 2.0 certification. Higher efficiency means an optimized energy management and lower heat dissipation, for energy savings and improved reliability.



Efficiency (up to 98%) in active ECO mode

Superior protection with maximum efficiency.



Product warranty

Comprehensive coverage through a standard three-year advanced exchange warranty.



Integrated battery

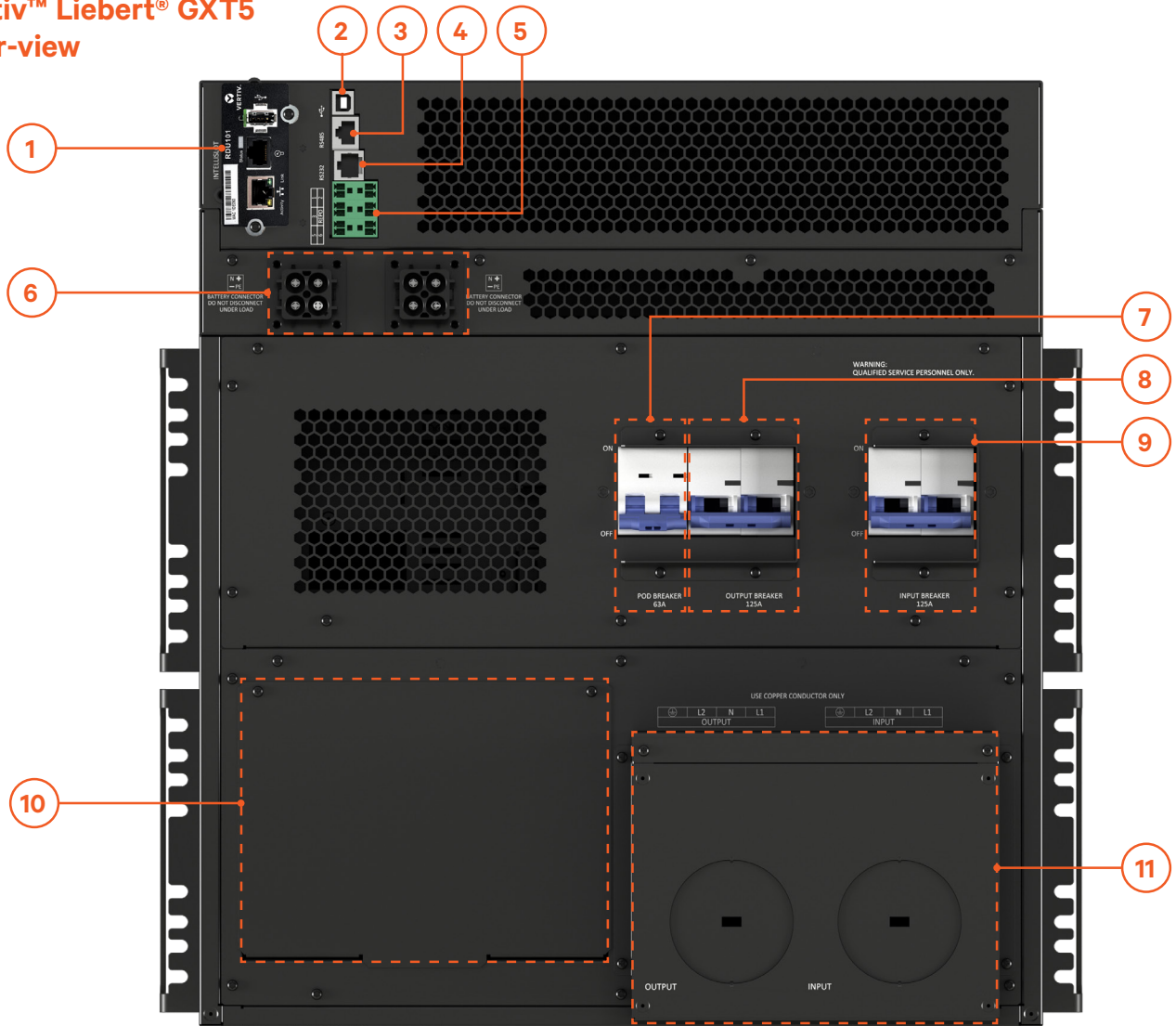
With self-test and detection capability.



Battery cabinets with auto-detection

Be confident the UPS is set up correctly to report available runtime when used with external battery cabinets.

Vertiv™ Liebert® GXT5 Rear-view



Item	Description
1	Vertiv™ Liebert® IntelliSlot™ port with the Vertiv™ Liebert® IntelliSlot™ RDU120 Communications Card factory installed
2	USB port
3	RS-485 port used for connecting external temperature sensor
4	RS232 port, RJ-45/RJ-11 connection used for command line interface
5	Terminal block communication connectors
6	External battery-cabinet connectors
7	POD breaker
8	Output breaker
9	Input breaker
10	Cover for power-distribution box connector
11	Knockouts for hard-wired power input and output



Technical specifications

	Vertiv™ Liebert® GXT5-15KMVRT11UXLN	Vertiv™ Liebert® GXT5-20KMVRT11UXLN
Ratings (VA/W)	15,000 VA/15,000 W	20,000 VA/20,000 W
Dimensions, inches (mm)		
Unit W x D x H	16.9 x 26.7 x 18.9 (430 x 680 x 482)	16.9 x 26.7 x 18.9 (430 x 680 x 482)
Shipping, W x D x H	27.1 x 48.0 x 46.0 (690 x 1220 x 1169)	27.1 x 48.0 x 46.0 (690 x 1220 x 1169)
Weight, pounds (kg)		
Unit	396.6 (179.9)	396.6 (179.9)
Shipping	518.8 (231.0)	518.8 (231.0)
Input AC parameters		
Operating frequency, nominal	40 - 70 Hz (factory-default is 60 Hz)	40 - 70 Hz (factory-default is 60 Hz)
Voltage range	176 - 280 VAC (factory-default 120/208VAC)	176 - 280 VAC (factory-default 120/208VAC)
Input wiring	Hard-wired terminal block 3W + G (L-L-N-G)	Hard-wired terminal block 3W + G (L-L-N-G)
Output AC parameters		
Output receptacles	Hard-wire, Optional POD's	Hard-wire, Optional POD's
User selectable output	208/120VAC	208/120VAC
Waveform (On Battery)	Sinewave	Sinewave
Utility (AC) mode overload	105% to 125% for 5 minutes 125% to 150% for 60 seconds >150% (impact load) minimum 200 ms	105% to 125% for 5 minutes 125% to 150% for 60 seconds >150% (impact load) minimum 200 ms
Battery		
Type	Valve-regulated, non-spillable, lead acid	Valve-regulated, non-spillable, lead acid
Backup time (100% Load)	7.0	4.5
Backup time (50% Load)	19.0	13.0
+2 External battery cabinet (100% Load)	19.5	13.0
+2 External battery cabinet (50% Load)	49.5	34.5
Environmental requirements		
Operating temperature, °F (°C)	32 - 104 (0 to 40) (no derating)	32 - 104 (0 to 40) (no derating)
Storage temperature, °F (°C)	5 to 140 (-15 to 40)	5 to 140 (-15 to 40)
Relative humidity	0 - 95% non-condensing	0 - 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 3.2 ft (1 m) from the front and sides, <58 dBA, at 3.2 ft (1 m) from rear	<58 dBA, at 3.2 ft (1 m) from the front and sides, <58 dBA, at 3.2 ft (1 m) from rear
Agency		
Surge immunity and EMC	IEEE/ANSI C62.41 Category B	IEEE/ANSI C62.41 Category B
Transportation	ISTA Procedure 3E	ISTA Procedure 3E
Safety	UL1778, c-UL listed	UL1778, c-UL listed
Emissions	FCC Part 15 (Class A)	FCC Part 15 (Class A)
Warranty		
	Std. 3 year; Opt. 2 year extension	Std. 3 year; Opt. 2 year extension
Protection plan		
Equipment Protection Plan	\$500,000	

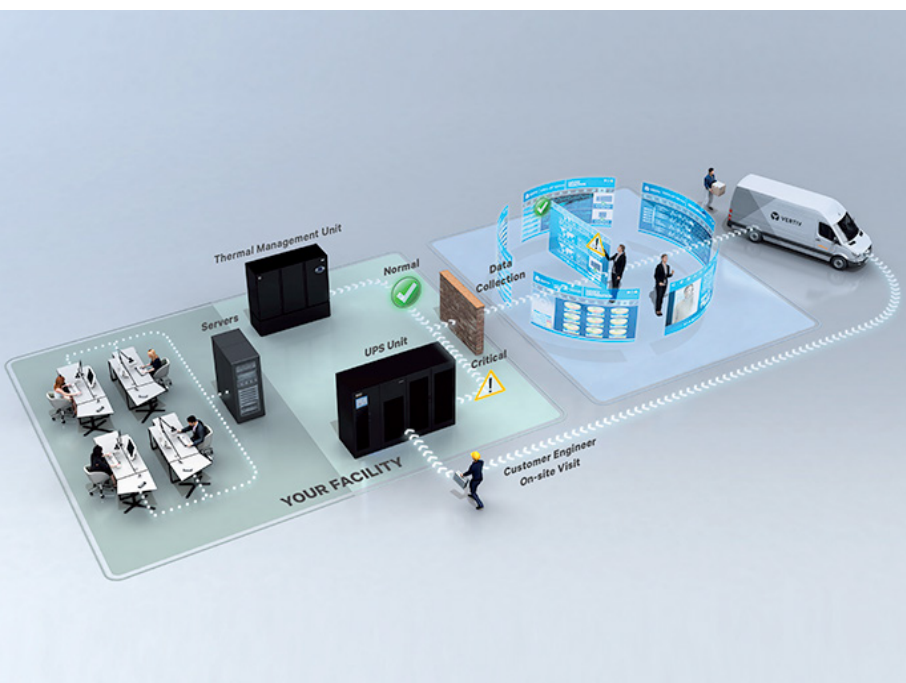
Power Assurance Package: Comprehensive Service Support for Critical Systems

- **Five-year protection plan** with 100% parts coverage and 24x7 emergency service
- **On-site installation and startup** of UPS and internal batteries (excludes hard-wired applications); configuration of new UPS and accessories; and if purchased, safe removal and disposal of legacy UPS and batteries
- **On-site service support** available 24x7 (within 150 miles of regional service center) and includes 100% labor and travel coverage
- **100% parts coverage** for UPS and includes internal batteries, POD (power output distribution), and web card
- **24x7 access** to customer resolution center and online access to Customer Services Network

Key benefits:

- Hassle-free management of multi-site rollouts
- Frees up time-strapped IT staff by managing and tracking UPS health, maintenance and service
- Reduces the worry of critical equipment downtime
- Enables rapid recovery in the event of failure (within 24-48 hours)
- Frees you from the responsibility of handling and documenting the disposal of legacy UPS and batteries

Remote Diagnostic Services for Rapid Response



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 enable business continuity



Vertiv™ Liebert® GXT5 UPS - Power Assurance Services

Power assurance package

Bundled start-up service and 5-year on-site emergency response	Standard	With Vertiv™ LIFE™ Services	With Removal	With Vertiv™ LIFE™ and Removal
Equipment model/type	Part number	Part number	Part number	Part number
15-20kVA GXT5 UPS	PAPGXT15-20K	PAPGXT15-20KLF	PAPGXT15-20KRMV	PAPGXT15-20KRLF
External battery cabinet 288	PAPGXT-BATT	PAPGXT-BATTRMV	N/A	N/A

Power Startup Services

Start-up service only	M-F, 8-5	7x24	7x24 with Removal
Equipment model/type	Part number	Part number	Part number
15-20kVA GXT5 UPS	SUGXT15-20MF	SUGXT15-20U7	SUGXT15-20U7RMV
External battery cabinet 288	SUGXT-EXTBTCB		SUGXT-EXTBTCBRMV

Power Emergency Services

5-year on-site emergency coverage only	Standard	With Vertiv™ LIFE™ Services
Equipment model/type	Part number	Part number
15-20kVA GXT5 UPS	PEPGXT15-20K5YR	PEPGXT15-20KLF
External battery cabinet 288V	PEPGXT-288BAT5YR	N/A

Power Assurance Package - Summary

- Includes all below "Power Start-up Services" and "Power Emergency Services" support
- One Preventative Maintenance visit after 3rd year

Power Startup Services - Summary

- Installation includes mounting and start-up of new UPS or EBC (excludes hard-wired applications)
- Services performed by Vertiv factory trained technician
- Services performed 7 X 24, excluding national holidays within the 48 contiguous states and Hawaii
- Removal and disposal of existing UPS or EBC equipment, if selected

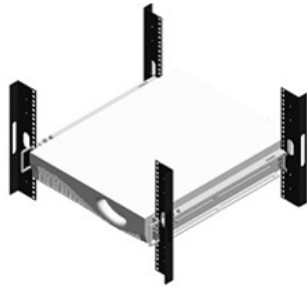
Power Emergency Services - Summary

- On site service support
- Full-service five (5) year contract term commencing upon the start-up date
- 100% parts coverage, including internal batteries, POD and web card
- 100% labor and travel coverage 7 days/week, 24 hours/day
- 24-Hour Customer Resolution Center via 1-800-LIEBERT
- Access to Customer Services Network portal

Vertiv™ LIFE™ Services includes above plus:

- Continuous monitoring, expert analysis, and proactive response
- Note: LIFE™ Services requires an Vertiv™ Liebert® IntelliSlot™ RDU120 card, which is included on all 5000VA to 20000VA models.
- [Please refer to the Scopes of Work for full and additional details](#)

Available accessories for the Vertiv™ Liebert® GXT5 UPS



Mounting kit options

Application	Model supported	Style	Model	Description
2 post- telecom rack	All GXT5 UPS			
4 post rack	All GXT5 UPS	Bracket	RMKIT18-32	Cabinet/racks with 18" - 32" deep support rails - Telescopic rail



Vertiv™ maintenance bypass cabinet option

Integrated lock out/tag out arm for maximum site and personnel safety

MBC Model Number	Dimensions	Input	Output	Compatible UPS
VMBC-20KMVRT4U	16.9W x 21.6D x 6.8H (in) 430W x 549D x 173H (mm)	Hardwired (L-L-N-G)	3x L14-30R, Hardwired, Optional PD2 POD	GXT5-15KMVRT11UXLN GXT5-20KMVRT11UXLN



Optional power output distribution PODs



PD2-104 output distribution POD



PD2-104 output distribution POD

POD model number	Output connections
PD2-101	(8) 5-15/20R T-slot, (2) L6-30R
PD2-102	(4) 5-15/20R T-slot, (4) L6-20R
PD2-103	(4) 5-15/20R T-slot, (4) L6-30R
PD2-104	(4) 5-15/20R T-slot, (2) L6-30R, (2) L6-20R
PD2-105	(4) 5-15/20R T-slot, (2) L5-30R, (2) L5-20R
PD2-106	(4) L5-20R, (4) L6-20R
PD2-107	(4) L5-20R, (4) 5-15/20R T-slot
PD2-108	(2) L6-30R, (2) L6-20R
PD2-109	(2) L14-30R



GXT5-EBC288VRT4U External battery cabinet

External battery cabinets and replacement battery kits

External battery cabinets must be added in pairs with the 15-20kVA Vertiv™ Liebert® GXT5 UPS

UPS	External battery cabinets	Replacement battery kits
GXT5-15KMVRT11UXLN	2 x GXT5-EBC288VRT4U	2 x GXT5-288VBATKIT
GXT5-20KMVRT11UXLN	2 x GXT5-EBC288VRT4U	2 x GXT5-288VBATKIT

Network communication cards and environmental sensors

Optional Intellislot cards are compatible with all Vertiv™ Liebert® PSi5 UPS systems

Network Communications	RDU120	Network Communication Card with 10/100/1000 Mbps Ethernet, web interface, MIB, configuration cable, and environmental sensor support, UL 2900 certified.
	RDU101	Vertiv™ Liebert® IntelliSlot™ web card for SNMP and web management. Supports environmental sensors.
	IS-RELAY	Vertiv™ Liebert® IntelliSlot™ Interface Kit for Relay Contacts
Vertiv™ Liebert® RDU101 card Environmental Sensors*	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)
	A2D-10	Analog to digital converter provides the ability to connect a dry contact, 0-10V, or 4-20mA sensor to a Plug-n-Play sensor port. Includes a 10ft / 3m cable.
	A2D-50	Analog to digital converter provides the ability to connect a dry contact, 0-10V, or 4-20mA sensor to a Plug-n-Play sensor port. Includes a 10ft / 3m cable.
Vertiv™ Liebert® IntelliSlot™ RDU120 Card Environmental Sensors**	GT3HD	Temperature, humidity, and dew point sensor with dual inputs for included 3ft / .9m and 6ft / 1.8m temperature sensors for monitoring top, middle, and bottom of a rack or cabinet. Includes a supplementary input for daisy-chaining additional sensors. Includes 10ft / 3m cable.
	GT3HD-50	Temperature, humidity, and dew point sensor with dual inputs for included 3ft / .9m and 6ft / 1.8m temperature sensors for monitoring top, middle, and bottom of a rack or cabinet. Includes a supplementary input for daisy-chaining additional sensors. Includes 50ft / 15.2m cable.
	GTHD	Temperature, humidity, and dew point sensor. Includes a supplementary input for daisy-chaining additional sensors. Includes 10ft / 3m cable.
	GTHD-50	Temperature, humidity, and dew point sensor. Includes a supplementary input for daisy-chaining additional sensors. Includes 50ft / 15.2m cable.
	SRT-12	Temperature sensor used to monitor temperature in critical environments. Includes a 12ft / 3.6m cable.
	SRT-20	Temperature sensor used to monitor temperature in critical environments. Includes a 20ft / 6.1m cable.
	SRT-50	Temperature sensor used to monitor temperature in critical environments. Includes a 50ft / 15.2m cable.
	SRT-100	Temperature sensor used to monitor temperature in critical environments. Includes a 100ft / 30.4m cable.
	RTAFHD3-12	Temperature, airflow, humidity, and dew point sensor. Includes 12ft / 3.6m cable.
	RTAFHD3-20	Temperature, airflow, humidity, and dew point sensor. Includes 20ft / 6.1m cable.
	RTAFHD3-50	Temperature, airflow, humidity, and dew point sensor. Includes 50ft / 15.2m cable.
	RTAFHD3-100	Temperature, airflow, humidity, and dew point sensor. Includes 100ft / 30.4m cable.
	FS-15	0-5VDC conductivity based flood sensor used to detect the presence of water. Includes a 15ft / 4.5m cable.
	FS-100	0-5VDC conductivity based flood sensor used to detect the presence of water. Includes a 100ft / 30.4m cable
	RDPS	Magnetic normally-closed dry-contact sensor used to monitor remote door position. Includes 30ft / 9.1m cable.
	RDPS-50	Magnetic normally-closed dry-contact sensor used to monitor remote door position. Includes 50ft / 15.2m cable.
	RDPS-100	Magnetic normally-closed dry-contact sensor used to monitor remote door position. Includes 100ft / 30.4m cable.
PFS-100 US	0-5V power failure sensor to monitor the presence of utility power. Includes a 100ft / 30.4m cable and US NEMA power supply	

* Only compatible with Vertiv™ Liebert® IntelliSlot™ RDU101 Network Card

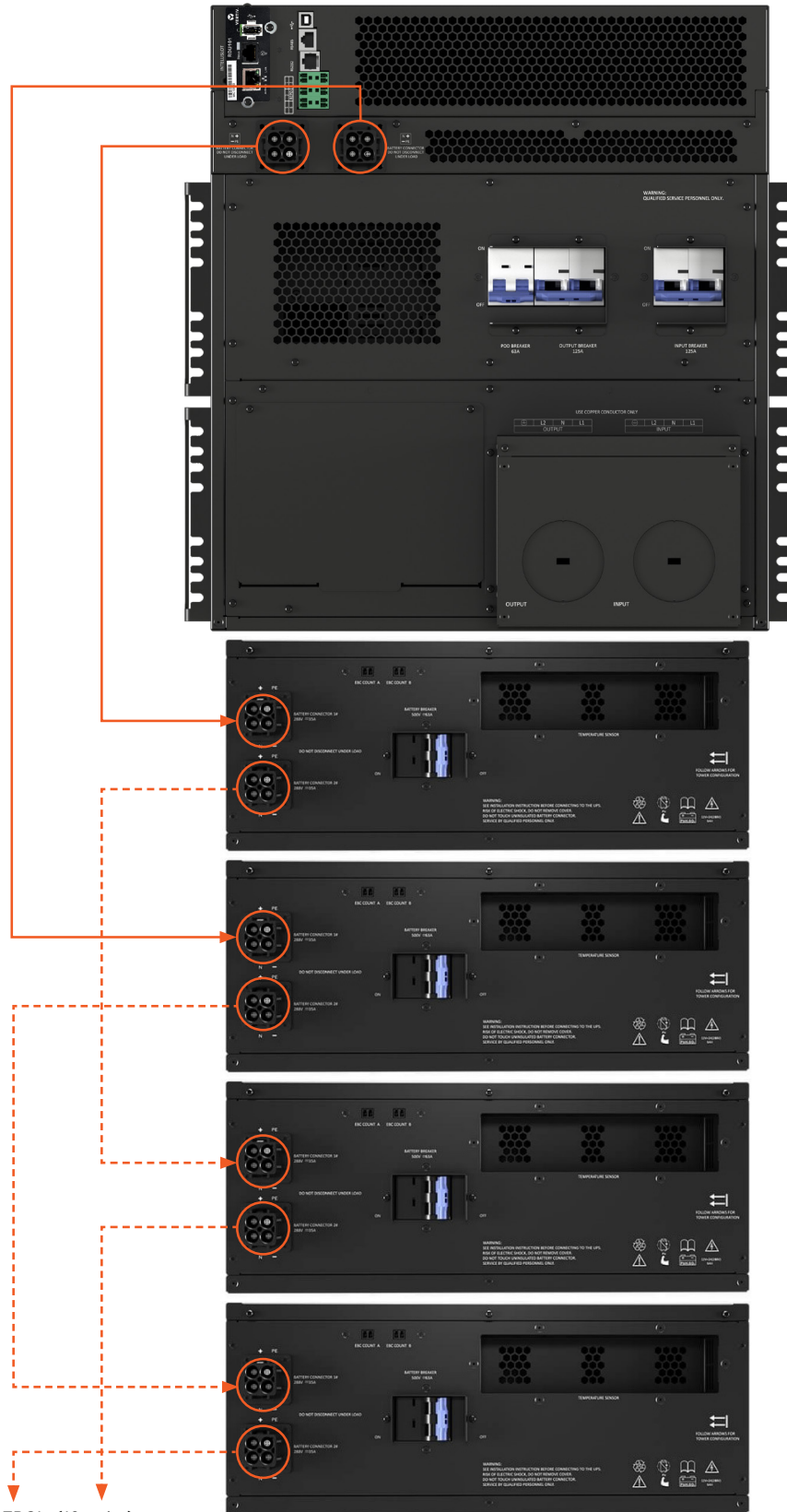
**Only compatible with Vertiv™ Liebert® IntelliSlot™ RDU120 Network Card



Vertiv™ UPS Software Benefits Ladder

Feature	Vertiv™ Power Assist	Vertiv™ Power Insight	Vertiv™ Environet™ Alert	Vertiv™ DSView™ Solutions	Vertiv™ Environet™ Connect
Management					
Mass device provisioning					•
Mass device configuration					•
Mass firmware upgrade				•	•
Hypervisor plugin		vCenter, vXRail, Nutanix			
Automated server shutdown	•	•			
Reporting					
Analytics and reporting			•		•
Historical data		•	•		•
Thresholds and alerts		•	•	•	•
Alarm management	•	•	•	•	•
Monitoring					
IT device monitoring				•	
Thermal monitoring			•		•
Power monitoring	UPS Only	UPS and Rack PDU	•	UPS, Rack PDU, Servers	•
Specifications					
Protocol support	USB/SNMP	SNMP	SNMP, Modbus TCP, BACnet IP	SNMP, IPMI, Redfish	SNMP
Equipment support	Vertiv Only	Vertiv Only	Multi-Vendor	Multi-Vendor	Multi-Vendor
Max. Devices support	2	100	Scalable	Scalable	Scalable
Software architecture	On-prem	On-prem	On-Prem	On-Perm	Multi-Tenant Cloud based
Licensing	Free	Free	Perpetual	Subscription	Subscription

External battery cabinet power cable connection diagram



Connect up to 20 EBC's (10 pairs) on each Vertiv™ Liebert® GXT5 15-20kVA UPS.



Battery runtime tables

Vertiv™ Liebert® GXT5-15KMVRT11UXLN

Load			Number of External Battery Cabinets - GXT5-EBC288VRT4U										
			Internal Battery Only	2	4	6	8	10	12	14	16	18	20
%	VA	W	Minutes										
10	1500	1500	133.0	303.0	473.0	643.5	814.0	984.0	1154.5	1324.5	1495.0	1665.0	1835.5
20	3000	3000	63.5	138.5	226.5	314.5	402.5	491.0	579.0	667.0	755.0	843.0	931.0
30	4500	4500	38.5	89.0	140.0	199.0	258.0	317.5	376.5	435.5	494.5	554.0	613.0
40	6000	6000	26.0	64.5	102.0	140.5	185.5	230.0	274.5	319.0	363.5	408.0	453.0
50	7500	7500	19.0	49.5	79.5	110.0	141.5	177.0	213.0	249.0	284.5	320.5	356.0
60	9000	9000	15.0	39.5	65.0	90.0	115.5	142.0	172.0	202.0	232.0	262.0	291.5
70	10500	10500	12.0	32.0	54.5	76.0	98.0	120.0	143.0	169.0	194.5	220.5	246.5
80	12000	12000	10.0	27.0	46.5	65.5	85.0	104.0	123.5	144.0	167.0	189.5	212.5
90	13500	13500	8.5	23.0	40.0	57.5	74.5	91.5	108.5	125.5	144.0	164.5	184.5
100	15000	15000	7.0	19.5	34.5	50.5	66.0	81.0	96.5	112.0	127.5	144.5	162.5

Vertiv™ Liebert® GXT5-20KMVRT11UXLN

Load			Number of External Battery Cabinets - GXT5-EBC288VRT4U										
			Internal Battery Only	2	4	6	8	10	12	14	16	18	20
%	VA	W	Minutes										
10	2000	2000	99.0	222.5	353.0	483.0	613.5	743.5	873.5	1004.0	1134.0	1264.5	1394.5
20	4000	4000	45.0	101.0	161.5	228.0	294.5	361.0	427.0	493.5	560.0	626.5	693.0
30	6000	6000	26.0	64.5	102.0	140.5	185.5	230.0	274.5	319.0	363.5	408.0	453.0
40	8000	8000	17.5	45.5	74.0	102.5	131.0	164.0	197.5	231.0	265.0	298.5	332.0
50	10000	10000	13.0	34.5	57.5	80.5	103.0	126.0	151.5	179.0	206.0	233.0	260.0
60	12000	12000	10.0	27.0	46.5	65.5	85.0	104.0	123.5	144.0	167.0	189.5	212.5
70	14000	14000	8.0	21.5	38.0	55.0	71.0	87.5	104.0	120.5	137.5	157.0	176.5
80	16000	16000	6.5	18.0	32.0	46.5	61.0	75.5	89.5	104.0	118.5	133.0	150.0
90	18000	18000	5.5	15.0	27.0	40.0	53.0	66.0	78.5	91.5	104.0	117.0	130.0
100	20000	20000	4.5	13.0	23.0	34.5	46.5	58.0	69.5	81.0	92.5	104.5	116.0



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