



Vertiv™ Liebert®

GXT5 Lithium-Ion UPS

1000 - 3000 VA 230 V

Rack/Tower

Intelligent and Efficient Double Conversion Online UPS Offers the Highest Level of Power Protection



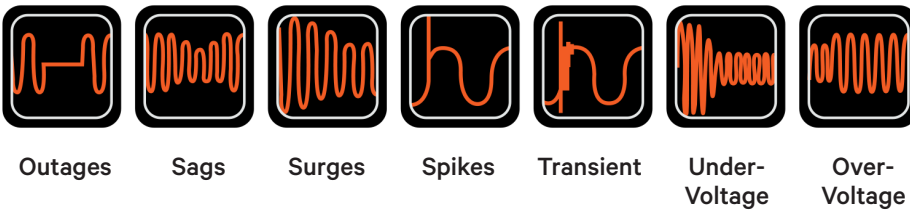
The Vertiv™ Liebert GXT5 Lithium-Ion UPS provides the highest level of power protection for your business critical IT applications.

High Performance Online Power Protection

The GXT5 Lithium-Ion double conversion online UPS provides both the highest level of power conditioning and battery backup for business critical IT equipment such as business network gear and servers ensuring your mission-critical applications are protected in the event of an unanticipated loss of power or an unprecedented power surge.

The GXT5 Lithium-Ion UPS protects against the widest range of power fluctuations and automatically switches to battery backup when power loss is detected. With a 0.9 or better output power factor (PF) and no transfer time to operation on battery, you can ensure your most critical assets are protected.

Protects Against



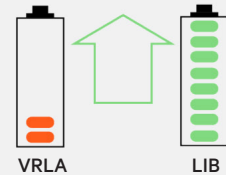
The rack/tower convertible design of the Vertiv Liebert GXT5 Lithium-Ion UPS makes it ideal for edge or distributed IT applications where floor space is at a premium. It is a true low-maintenance, set-it and forget-it solution ideal for remote locations with limited onsite technical resources.

Vertiv Liebert GXT5 Lithium-Ion Overview

- 1000VA, 1500VA, 2000VA, & 3000VA UPSs in a rack/tower convertible form factor
- Standard 5-year warranty provides peace of mind that your investment is protected against potentially costly equipment failures
- Achieve the lowest total cost of ownership over the lifetime of the UPS with fewer battery replacements and up to 10 years of useable life
- Hot-swappable, user-replaceable batteries increase the useable life of the UPS by allowing you to easily replace the batteries without disrupting power to connected equipment
- Internal batteries offer industry-leading runtime (up to 14 minutes at full load) to protect critical equipment during an unexpected power loss
- Lithium-Ion battery technology offers better performance in high temperature environments, supports up to 10 times more discharge cycles, and delivers faster recharge times compared to VRLA batteries

Why should you choose Lithium-Ion Technology?

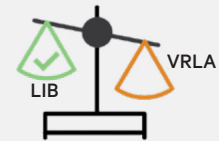
LONGER LIFE



LOWEST TCO



SMALLER AND LIGHTER



LONGER RUNTIME



ENVIRONMENTALLY FRIENDLY



FAST BATTERY RECHARGE



Lithium-Ion technology delivers up to 3 times the life expectancy of lead-acid batteries and lowers the total cost of ownership by nearly half

Lithium-Ion Outperforms VRLA when compared...

Battery Feature	VRLA Battery	Lithium-Ion Battery	Lithium-Ion Benefit
Standard battery life	3-5 years	8-10 years	Up to 3 times longer life
Typical cycle life	200-260	2000	Up to 10x more discharge/recharge cycles
Battery recharge time (@ 90%)	3-6 hours	<2 hours	Fast recovery time safeguards your critical IT equipment in the event of multiple outages
Battery weight	10.9 kg	5.9 kg	45% lighter making it ideal for small spaces and wall-mount racks
Warranty	2 or 3 years	5 years	Worry free operation so you can set-it and forget-it

Build Your Total Infrastructure Solution with Vertiv

Discover expert designed IT infrastructure solutions with proven success in diverse environments and countless applications.

Vertiv™ Geist™ rPDU
Reliable power distribution with outlet level remote monitoring and management providing the highest level of power visibility and control.

Vertiv™ VE Rack
Self-contained 42U server rack designed to simplify equipment installation and provides an additional 6cm of useable depth.

Cable and Air Flow Management
Included accessories ensure proper cable management and airflow to keep your equipment cool.

Software and IT Management
Monitor the entire system either locally or remotely to ensure you are alerted of out-of-range conditions that could result in costly downtime.

Vertiv™ Liebert GXT5 Lithium-Ion UPS
Protect mission critical equipment in the event of power loss or extreme power fluctuations.

Visit Vertiv.com or contact a Vertiv Sales Representative today to find out how Vertiv can help you configure an all-in-one infrastructure solution.

High Performance



0.9 (or Better) Output Power Factor (PF): Provides more useable power enabling you to connect more equipment saving you money and space.

Increased Runtime: Internal batteries offer up to 14 minutes of runtime at full load.



Programmable Outlet Group: Extend run time when on battery power by power-cycling connected equipment and shedding less critical loads.

Battery Backed Outlets: Up to 7 battery backed outlets ensuring critical equipment is protected.

Advanced Warning Status: Receive early audible and visual alarms warning you of system status to alert you to an input voltage, output overload, low battery, or battery replacement condition.



Wide Input Voltage Range: Prolong battery life by allowing the UPS to maximize the use of the utility power before transferring to battery.

Superior Battery Technology

Fewer Battery Replacements: Lithium-Ion batteries require fewer battery replacements and last on average up to 3 times as long as traditional VRLA batteries reducing maintenance, labor, and replacement costs (lower TCO).

More Discharge Cycles: Lithium-Ion batteries deliver up to 10 times more charge / discharge cycles than VRLA batteries.

Fast Recharge: Lithium-Ion batteries recharge twice as fast as traditional VRLA batteries getting you back to 90% in as little as 2 hours.

Hot-Swappable, User-Replaceable Batteries: Increase product life and reliability with batteries that can be easily replaced without disrupting power to connected equipment.

Safe and Reliable: Safest Lithium-Ion (LiFePO4) battery chemistry and integrated battery management system (BMS) ensure safe and reliable operation.

Environmentally Friendly: Significantly reduce battery disposal and recycling with lower replacement rates.



Lithium-Ion
Batteries

Enhanced Manageability

LCD Display: User-friendly full-color LCD interface with gravity sensing orientation simplified installation and configuration while also providing instant at-a-glance status and insights.



Free Power Management Software:

- Vertiv™ [Power Insight](#) – Add the Liebert® RDU101 card for web/SNMP manageability
- Vertiv™ [Power Assist](#) – Monitor UPS conditions through a local USB connection
- Vertiv™ Intelligence Director – Together with Vertiv™ Geist™ rPDU one single IP Address to monitor and manage up to 50 devices



Remote Monitoring and Management: Add an optional Liebert® IntelliSlot RDU101 communication card to enable remote monitoring / management (web based, SNMP, BACnet, MODBUS and relay contacts) and environmental monitoring via external sensors.

Remote Emergency Power Off: Remotely shutdown the UPS during an emergency.

Vertiv™ Liebert® GXT5 Lithium-Ion Features



High power factor (0.9-1.0)
More usable power enables more connected loads saving space and costs.

Efficiency (up to 94%) in online mode



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.

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



Compact rack/tower design



Space-saving UPS provides rack space optimization and flexible installation.



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



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



Vertiv™ Liebert GXT5 Lithium-Ion UPS | 1000 - 3000VA 230V UPS

1000-1500VA – 230V Rack/Tower

External Battery Connector

Scalable runtime solution supported for extended outage protection (up to 8 EBs)

2 x Controllable Outlet Groups

Manage load on battery and control unauthorized access to UPS receptacle



Communications

IntelliSlot (Web/SNMP Card), Serial Port, Dry Contacts, USB Port for Local and Remote Configuration and UPS Management

IEC C14 Input with Over Current Protection

Simple installation and power on with connected input cord

2000VA – 230V Rack/Tower

External Battery Connector

Scalable runtime solution supported for extended outage protection (up to 8 EBCs)

2x Controllable Outlet Groups,

2x Always on Receptacles

Manage load on battery and control unauthorized access to UPS receptacle



Communications

SNMP, Serial, Dry contact, Local USB Local and remote configuration and UPS Management

IEC C20 input with over current protection

3000VA – 230V Rack/Tower

External Battery Connector

Scalable runtime solution supported for extended outage protection (up to 8 EBCs)

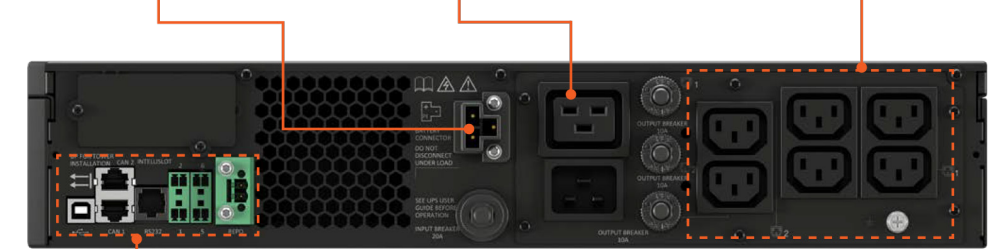
IEC C19 Outlet

Support larger devices or rack PDU

2x Controllable Outlet Groups,

2x Always on Receptacles

Manage loads on battery and control unauthorized access to UPS receptacles



Communications

SNMP, Serial, Dry contact, Local USB Local and remote configuration and UPS Management

IEC C20 input with over current protection

Simple Installation and power up

Technical Specifications | 1000 VA - 3000 VA, 230V, Rack/Tower Convertible

Standard Models*	GXT5LI-1000IRT2UXL	GXT5LI-1500IRT2UXL	GXT5LI-2000IRT2UXL	GXT5LI-3000IRT2UXL
Form Factor	2U Rack/Tower	2U Rack/Tower	2U Rack/Tower	2U Rack/Tower
Power Rating	1000 VA / 1000 W	1500 VA / 1500 W	2000 VA / 2000 W	3000 VA / 2700 W
Dimensions, W X D X H, IN (MM)				
Unit	16.9 x 17.3 x 3.4 (430 x 446 x 85)	16.9 x 18.7 x 3.4 (430 x 476 x 85)	16.9 x 18.7 x 3.4 (430 x 476 x 85)	16.9 x 21.5 x 3.4 (430 x 546 x 85)
Shipping	22.4 x 23.5 x 9.5 (570 x 597 x 242)	22.4 x 23.5 x 9.5 (570 x 597 x 242)	22.4 x 23.5 x 9.5 (570 x 597 x 242)	22.4 x 28.2 x 9.5 (570 x 717 x 242)
Weight, LB (KG)				
Unit	16 kg	17 kg	17 kg	21 kg
Shipping	21 kg	24 kg	24 kg	27 kg
Input/Output AC Parameters				
Input	IEC C14	IEC C14	IEC C20	IEC C20
Total Receptacles	(8) IEC C13	(8) IEC C13	(8) IEC C13	(1) IEC C19 (6) IEC C13
Programmable Receptacles	(2) Groups of (3) IEC C13			
Nominal Voltage Setting	230VAC Default; 200/208/220/230/240VAC (User-Configurable)			
Voltage Range Without Battery Operation	Nominal (Full Load): 176 - 288 VAC; Maximum: 115 - 288 VAC			
Frequency Range	40 to 70 Hz			
Surge Protection	EC 61000-4-5, ANSI C62.41, Category B			
Transfer Time	0 ms			
Battery Waveform	Pure Sine Wave			
Battery Parameters				
Type	Lithium-Ion (LiFePO ₄)			
Recharge Time (from full discharge)	< 2 hrs to 90%			
Full-Load Runtime	12 min	13 min	9 min	6.5 min
Half-Load Runtime	26.5 min	27 min	21 min	14.5 min
External Battery Cabinet	VEBCLI-48VRT1U	VEBCLI-48VRT1U	VEBCLI-48VRT1U	VEBCLI-48VRT1U
Environmental				
Operating Temperature, °F (°C)	32°F to 104°F (0°C to 40°C) (10% Derating at 50°C)			
Storage Temperature °F (°C)	-4° to 140° (-20° to 60°)			
Relative Humidity	0% – 95%, non-condensing			
Operating Altitude, ft (m)	0 to 10,000 (0 to 3,000) w/o Derating (15% Derating at 4000m)			
Audible Noise	< 48 dB			
Certifications				
Safety	IEC 62040-1:2008+A1 2013, IEC 62619 1st Ed., UL 1642 (Li-Ion Battery Cells), UL 1973 (Li-Ion Battery Pack w/UPS)			
Agency	IEC 62040-1:2008+A1 2013, IEC 62619 1st Ed., IEC 62040-2 2nd Ed., IEC 61000-3-2, IEC 61000-3-12, CISPR22, Class A			
Environmental	RoHS2 / REACH / WEEE			
Network Surge	IEC 61000-4-5, ANSI C62.41, Category B			
Transportation	ISTA Procedure 2A			
Warranty	5 years on UPS and Battery			

Vertiv™ Liebert GXT5 Lithium-Ion UPS | 1000 - 3000VA 230V UPS

Optional Accessories



External battery cabinets and replacement battery kits

UPS	External Battery Cabinets*	Internal Replacement Battery Kits
GXT5LI-1000LVRT2UXL	VEBCLI-48VRT1U	GXT5LI-48VBATKIT1
GXT5LI-1500LVRT2UXL	VEBCLI-48VRT1U	GXT5LI-48VBATKIT2
GXT5LI-2000LVRT2UXL	VEBCLI-48VRT1U	GXT5LI-48VBATKIT2
GXT5LI-3000LVRT2UXL	VEBCLI-48VRT1U	GXT5LI-48VBATKIT2

*EBCs are hot-swappable, user-replaceable to allow for the full EBC to be replaced, as needed. Up to 8 EBCs can be used per UPS.

External Battery Cabinet	Dimensions (W x D x H), mm	Weight, kg
VEBCLI-48VRT1U	430 x 446 x 42.5 (Unit) / 600 x 800 x 297 (Shipping)	9.9 (Unit) / 25.5 (Shipping)



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	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
UPS manageability options	Vertiv™ Power Insight Software Management	Vertiv™ Power Insight is a complimentary web-based software designed to monitor up to 100 Vertiv™ UPSs and rPDUs



MicroPOD - Maintenance bypass and output distribution

The Vertiv™ Liebert® MicroPOD (Power Output Distribution) is a maintenance bypass option for UPS products, 3 kVA and below. It allows removal of the UPS without powering down the connected equipment. The 2U POD's can be installed on the floor or mounted to a Liebert® GXT5 UPS using the included mounting brackets.

UPS VA rating	POD model number	Output receptacles	Plug to utility
750-1500VA UPS	MP2-210K	4+4 IEC60320-C13	IEC60320-C14
2000VA UPS	MP2-220L	2+2+2 IEC60320-C13 & 1 IEC60320-C19	IEC60320-C20
3000VA UPS	MP2-220L	2+2+2 IEC60320-C13 & 1 IEC60320-C19	IEC60320-C20

Battery Run Times

1000 VA

No. of EBCs	Backup Time (Min)									
	1000 W	900 W	800 W	700 W	600 W	500 W	400 W	300 W	200 W	100 W
UPS	12.3	13.9	16.1	18.7	22	26.7	31.6	42.2	62.2	107.4
UPS+1 EBC	32	36	41.5	48	56.4	68.1	80.3	106.8	154.7	269.8
UPS+2 EBC	54.3	60.7	69.5	79.9	93.4	112.2	131.8	174.1	249.9	435
UPS+3 EBC	76.6	85.5	97.6	111.8	130.4	156.3	183.2	241.5	345.1	600.1
UPS+4 EBC	99	110.2	125.7	143.8	167.5	200.4	234.7	308.8	440.3	765.3
UPS+5 EBC	121.3	135	153.8	175.7	204.6	244.5	286.2	376.2	535.6	930.4
UPS+6 EBC	143.6	159.7	181.9	207.7	241.6	288.6	337.6	443.5	630.8	1095.6
UPS+7 EBC	166	184.5	209.9	239.6	278.7	332.8	389.1	510.8	726	1260.7
UPS+8 EBC	188.3	209.3	238	271.6	315.8	376.9	440.5	578.2	821.2	1425.9

1500 VA

No. of EBCs	Backup Time (Min)									
	1500 W	1350 W	1200 W	1050 W	900 W	750 W	600 W	450 W	300 W	150 W
UPS	13	14.4	15.9	18.4	22.4	27.2	34.4	44.4	63.8	104.7
UPS+1 EBC	28.4	31.4	34.3	39.4	47.4	57.1	71.4	91.5	130.4	212.1
UPS+2 EBC	43.9	48.4	52.7	60.4	72.4	86.9	108.4	138.6	196.9	319.5
UPS+3 EBC	59.5	65.5	71.2	81.5	97.5	116.8	145.5	185.7	263.5	427
UPS+4 EBC	75	82.5	89.7	102.6	122.5	146.7	182.6	232.9	330.1	534.4
UPS+5 EBC	90.6	99.6	108.1	123.6	147.6	176.6	219.6	280	396.6	641.8
UPS+6 EBC	106.1	116.6	126.6	144.7	172.6	206.5	256.7	327.1	463.2	749.2
UPS+7 EBC	121.6	133.6	145.1	165.7	197.6	236.4	293.8	374.2	529.7	856.6
UPS+8 EBC	137.2	150.7	163.6	186.8	222.7	266.3	330.8	421.3	596.3	964.1

2000 VA

No. of EBCs	Backup Time (Min)									
	2000 W	1800 W	1600 W	1400 W	1200 W	1000 W	800 W	600 W	400 W	200 W
UPS	9.3	10.6	12.3	14.4	17.2	21	26.7	36	49.3	89.2
UPS+1 EBC	21	23.6	27.2	31.3	36.9	44.6	56	74.7	101.4	181.1
UPS+2 EBC	32.8	36.7	42	48.3	56.6	68.2	85.3	113.5	153.5	273.1
UPS+3 EBC	44.6	49.8	57	65.3	76.4	91.8	114.7	152.2	205.5	365
UPS+4 EBC	56.5	63	71.9	82.3	96.2	115.5	144.1	190.9	257.6	456.9
UPS+5 EBC	68.3	76.1	86.8	99.3	116	139.1	173.4	229.6	309.6	548.8
UPS+6 EBC	80.2	89.3	101.7	116.4	135.8	162.8	202.8	268.4	361.7	640.8
UPS+7 EBC	92	102.4	116.6	133.4	155.6	186.4	232.2	307.1	413.8	732.7
UPS+8 EBC	103.9	115.5	131.6	150.4	175.3	210	261.5	345.8	465.8	824.6

3000 VA

No. of EBCs	Backup Time (Min)									
	2700 W	2430 W	2160 W	1890 W	1620 W	1350 W	1080 W	810 W	540 W	270 W
UPS	6.5	7.4	8.6	10.1	12.2	14.4	18.6	25.4	37.8	70.6
UPS+1 EBC	15.2	17.1	19.6	22.7	26.8	31.4	39.7	53.4	78.3	144
UPS+2 EBC	24	27	30.6	35.3	41.5	48.4	60.9	81.5	118.9	217.3
UPS+3 EBC	32.9	36.8	41.7	47.9	56.2	65.5	82.1	109.5	159.4	290.7
UPS+4 EBC	41.8	46.7	52.8	60.6	71	82.5	103.3	137.6	199.9	364.1
UPS+5 EBC	50.7	56.5	63.9	73.2	85.7	99.6	124.5	165.6	240.5	437.4
UPS+6 EBC	59.6	66.4	75	85.9	100.4	116.6	145.7	193.7	281	510.8
UPS+7 EBC	68.5	76.3	86.1	98.6	115.2	133.6	166.9	221.8	321.5	584.1
UPS+8 EBC	77.4	86.2	97.2	111.2	129.9	150.7	188.2	249.8	362.1	657.5

*EBC- External Battery Cabinet

**Battery autonomy times are based on operation at 25°C. The autonomy times are approximate and are based on fully charged batteries and can vary +/-5% because of battery manufacturing variances.

Runtime tool available at: [Runtime Tool: Vertiv Liebert GXT5 Lithium-Ion 1-3KVA UPS \(vertiv.com\)](https://www.vertiv.com/resources/runtime-tool)

Comprehensive Services for Critical Systems

Note	Part Number		Description 2	Description 3
Need to order both part numbers at the same time to get all scope for Power Emergency package (8x5). Please see SOW below.	88028173	Vertiv UPS with Lithium Ion battery (1-3kVA)	Start-up/Installation	Power Emergency Bundle (8x5)
	88028183		Power Emergency Business Hour Contract (5 Years)	
Need to order both part numbers at the same time to get all scope for Power Emergency package (24x7). Please see SOW below.	88028176	Vertiv UPS with Lithium Ion battery (1-3kVA)	Start-up/Installation	Power Emergency Bundle (24x7)
	88028184		Power Emergency After Hour Contract (5 Years)	

Power Emergency Package (8X5)

The Power Emergency Package provides on-site emergency support with 100% parts and labor coverage and is available for single-phase UPS products up to 3kVA. Adding Vertiv services to your Vertiv UPS with Lithium Ion battery (1-3kVA) ensures you are protected during an emergency. Includes:

- Five-year service coverage
- Guaranteed 2-4hours on-site emergency response, 5 days/week, 8 hours/day, within 100 kms of a Vertiv's Service City.
- Includes 24x7 professional Helpline
- Advanced replacement of the faulty unit
- Shipping costs are covered by Vertiv
- Coverage for both electronic parts and battery failures
- Start-up / Installation services
 - Start-up Services provide on-site technical support for installation and start-up of your UPS for you get up and running as quickly as possible during business hours.
 - Installation includes mounting the new UPS and powering it up
 - Configuring the IS-Webcard and make sure that it is online in their network (optional item)
 - Services performed by a Vertiv factory trained technician

Power Emergency Package (24X7)

The Power Emergency Package provides on-site emergency support with 100% parts and labor coverage and is available for single-phase UPS products up to 3kVA. Adding Vertiv services to your Vertiv UPS with Lithium Ion battery (1-3kVA) ensures you are protected during an emergency. Includes:

- Five-year service coverage
- Guaranteed 2-4hours on-site emergency response, 7 days/week, 24 hours/day, within 100 kms of a Vertiv's Service City.
- Includes 24x7 professional Helpline
- Advanced replacement of the faulty unit
- Shipping costs are covered by Vertiv
- Coverage for both electronic parts and battery failures
- Start-up / Installation services
 - Start-up Services provide on-site technical support for installation and start-up of your UPS for you get up and running as quickly as possible 24x7.
 - Installation includes mounting the new UPS and powering it up
 - Configuring the IS-Webcard and make sure that it is online in their network (optional item)
 - Services performed by a Vertiv factory trained technician

Remote Diagnostic Services for Rapid Response

Data-Driven Insight:

With Life Services you don't just have someone periodically checking equipment status. You have Vertiv experts continuously monitoring and analysing all relevant control and operating parameters from your equipment to maintain optimum performance.

Real-time Response:

Real-time data enables realtime response to potential anomalies. Rather than wait for a problem to be detected by on-site personnel, Vertiv Life Services "sees" operating issues as soon as they occur. It triggers immediate service action to prevent problems or cut hours or days off the time-to-repair, preventing or reducing downtime.

Connected Service:

Vertiv service engineers can resolve many anomalies remotely and are connected to the Vertiv field service organisation for on-site resolution. They can dispatch a field service engineer as soon as a critical condition is identified, often arming the engineer with a diagnosis so they arrive knowing the issue and with any required replacement parts.

