



Product brochure

Vertiv™ Liebert® GXT5 Lithium-Ion UPS

5,000 - 10,000VA 230V

Rack/Tower

Online Double-Conversion UPS

Offers High Level of Power Protection



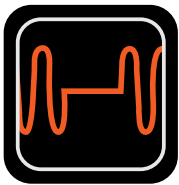
The Vertiv™ Liebert® GXT5 Lithium-Ion UPS provides the highest level of power protection for your business critical IT applications.

High Performance Online Power Protection

The Vertiv™ Liebert® 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 enabling your mission-critical applications are protected in the event of an unanticipated loss of power or an unprecedented power surge.

The Vertiv™ Liebert® 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 1.0 power factor (PF) and no transfer time to operation on battery, you can enable your most critical assets are protected.

Protects against



Outages



Sags



Surges



Spikes



Transient



Under-Voltage



Over-Voltage

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.

Why should you choose Lithium-Ion Technology?

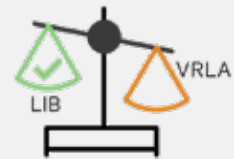
Longer Life



Lowest TCO



Smaller and Lighter



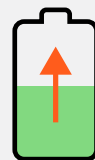
Longer Runtime



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	35 kg	22 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

Visit the TCO calculator at [vertiv.com](https://www.vertiv.com) -> Products & Services -> UPS -> GXT5 Lithium -> Models to calculate the cost savings for your installation.

Build Your Total Infrastructure Solution with Vertiv

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

Rack PDUs

IT Management and Monitoring

Lifecycle Service

Vertiv™ Liebert®

- Cooling
- Racks
- UPS

Vertiv™ Avocent®

- Device Management
- KVMs
- Serial Console

Vertiv™ Rack Distribution

- Rack Air Distribution
- Rack PDUs and RTS
- Monitoring

Lithium-Ion UPS

Thermal Management

Racks

Visit [Vertiv.com](https://www.vertiv.com) or contact a Vertiv Sales Representative today to find out how Vertiv can help you configure an all-in-one infrastructure solution.

How You Benefit from the Vertiv™ Liebert® GXT5 UPS

High Performance



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



Increased Runtime: included external lithium-ion battery pack offers up to 12 minutes of runtime at full load.

Extended Runtime: add up to a total of (8) 1U EBCs (or 8 EBC pairs for the 8/10KVA models) for a maximum runtime up to 100 minutes at full load, or 200 minutes at half-load.



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.

High Efficiency: we operate up to 94% in normal (online) operating mode.

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) enable safe and reliable operation.

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

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.

Remote Management:

- Vertiv™ Power Insight – Vertiv™ Liebert® RDU120 card included for web/SNMP manageability
- Vertiv™ Power Assist – Monitor UPS conditions through a local USB connection
- Vertiv™ Intelligence Director – Together with Vertiv™ rPDU one single IP Address to monitor and manage up to 50 devices



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



Integrated Maintenance Bypass and Power Distribution

Each Vertiv™ Liebert® GXT5 Lithium-Ion UPS (5-10kVA models only) includes a Zero-U maintenance bypass with integral power distribution. This enables UPS service or removal without disrupting power to the connected equipment.



High power factor (1.0)

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



Efficiency (up to 94%) 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.



Factory Installed Network Card

Vertiv™ Liebert® RDU120 SNMP/Web card enables Remote Management



Integrated Maintenance Bypass Cabinet (MBC)

Facilitates UPS maintenance or replacement, if needed, without having to shutdown the connected equipment.



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.

Supreme Power Density

Space-saving UPS and optional 1U external battery packs let you optimize rack space and battery runtime.



5000VA To 10000VA – 230V GV Rack/Tower

Communications

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

Hardwired Output

Hardwire UPS Output to rPDU Extender or PDU



External Battery Connector

Scalable runtime solution supported for extended outage protection (up to 8 External Battery Cabinets)

Maintenance Bypass

External Bypass for service with integrated power distribution

Technical Specifications 5-10 kVA

Standard Models	Vertiv™ Liebert® GXT5LI-5000GVRT3UXLN	Vertiv™ Liebert® GXT5LI-6000GVRT3UXLN	Vertiv™ Liebert® GXT5LI-8000GVRT3UXLN	Vertiv™ Liebert® GXT5LI-10KGVRT3UXLN
Form Factor	3U Rack/Tower		3U Rack/Tower	
Power Rating	5000 VA / 5000 W	6000 VA / 6000 W	8000 VA / 8000 W	10,000 VA / 10,000 W
Dimensions, W x D x H, mm (in)				
Unit	430 x 890 x 133 (16.9 x 35 x 5.25 (3U))	430 x 890 x 133 (16.9 x 35 x 5.25 (3U))	430 x 890 x 133 (16.9 x 35 x 5.25 (3U))	
Shipping	798 x 998 x 532 (31.4 x 39.3 x 20.9)		798 x 998 x 532 (31.4 x 39.3 x 20.9)	
Weight, Kg (Lb)				
Unit with EBCs*	45 (99)	99 (45)	48 (105)	
Unit without EBCs	23 (51)	23 (51)	26 (57)	
Shipping	72 (159)	72 (159)	75 (165)	
Input/Output AC Parameters				
Input Plug	Hardwired (L1-N/L2-G)	Hardwired (L1-N/L2-G)	Hardwired (L1-N/L2-G)	Hardwired (L1-N/L2-G)
Output	Hardwired (L1-N/L2-G)	Hardwired (L1-N/L2-G)	Hardwired (L1-N/L2-G)	Hardwired (L1-N/L2-G)
Nominal Voltage Setting	230VAC (Default); 200-240VAC (User-Configurable); ±1%			
Voltage Range Without Battery Operation	Nominal (Full Load): 176V - 288V AC; Maximum: 100 - 288VAC			
Frequency Range	40~70Hz			
Surge Protection	IEC 61000-4-5, ANSI C62.41, Category B			
Transfer Time	0 ms			
Battery Waveform	Pure Sine Wave			
Battery Parameters				
Type	Lithium-Ion (LiFePO4)			
Recharge Time (from full discharge)	< 2hrs to 90%	< 2hrs to 90%	< 2hrs to 90%	< 2hrs to 90%
Full-Load Runtime	11 min	9 min	5 min	4 min
Half-Load Runtime	25 min	19 min	15 min	11 min
Replacement Battery	N/A, external battery only	N/A, external battery only	N/A, external battery only	N/A, external battery only
External Battery Cabinet (quantity)	VEBCLI-192VRT1U (1)	VEBCLI-192VRT1U (1)	VEBCLI-192VRT1U (1)	VEBCLI-192VRT1U (1)
Environmental Requirements				
Operating Temperature, °C (°F)	0°C to 40°C (32°F to 104°F) (10% Derating at 50°C)			
Storage Temperature °C (°F)	-20° to 60° (-4° to 140°)			
Relative Humidity	0% – 95%, non-condensing			
Operating Altitude, m (ft)	0 to 3,000 (0 to 10,000) w/o Derating. (15% Derating at 4000m)			
Audible Noise	< 58 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), UL 1778, CSA 22.2 No. 107.3			
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, FCC Part 15, Class A, UL 1778			
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			

Rack Power Distribution options

UPS VA Rating	rPDU Model Number	Form Factor	Input	Output Receptacles
5000VA To 10000VA GV UPS	VP0G7200	Horizontal	Hardwired (L1-L2-G)	(8) U-Lock C-19 Out
	VP4G7006	Vertical	Hardwired (L1-L2-G)	(4) C19, (36) C13/C19 Out



Battery Run Times in Minutes

Load			Number Of EBCs							
%	VA	W	1	2	3	4	5	6	7	8
GXT5LI-5000GVRT3UXLN										
10	500	500	107	215.5	324	432.5	541.5	650	758.5	867
20	1000	1000	56	114.5	173	231	289.5	347.5	406	464
30	1500	1500	38.5	78.5	119.5	159.5	200	240.5	280.5	321
40	2000	2000	30.5	60	91.5	123	154	185.5	216.5	248
50	2500	2500	25	48.5	74	99.5	125	150	175.5	201
60	3000	3000	20.5	40	61	82.5	104	125	146	167.5
70	3500	3500	17.5	34.5	52	70	88.5	107	125	143
80	4000	4000	15	31	45.5	61	77	93	109	125
90	4500	4500	12.5	28	40	54	68	82.5	96.5	111
100	5000	5000	10.5	25	36	48	61	73.5	86.5	99.5
GXT5LI-6000GVRT3UXLN										
10	600	600	90.5	183	275	367.5	459.5	552	644.5	736.5
20	1200	1200	47	97	146.5	195.5	245	294.5	343.5	393
30	1800	1800	33.5	66	101	135.5	169.5	204	238	272.5
40	2400	2400	26	50.5	77	103.5	130	156.5	183	209.5
50	3000	3000	19	40	61	82.5	104	125	146	167.5
60	3600	3600	16.5	34.5	50.5	68	86	104	121.5	139
70	4200	4200	13	30	43	58	73	88.5	104	119
80	4800	4800	11	26	37.5	50	63.5	77	90	103.5
90	5400	5400	10	23	34	44	56	68	79.5	91.5
100	6000	6000	9	20.5	31	40	50	60.5	71.5	82
GXT5LI-8000GVRT3UXLN										
10	800	800	64.5	131.5	198.5	265	332	398.5	465	532
20	1600	1600	34.5	70.5	107	143.5	179.5	215.5	252	288
30	2400	2400	22.5	49	75	101.5	127	153	178.5	204.5
40	3200	3200	16.5	36.5	55.5	75	94.5	114	133.5	152.5
50	4000	4000	14.5	30.5	44	59.5	75	90.5	106	121.5
60	4800	4800	11.5	25	36.5	49	61.5	74.5	87.5	100.5
70	5600	5600	9.5	21.5	32	41.5	52	63.5	74.5	85.5
80	6400	6400	8	18.5	28	36	45.5	54.5	64.5	74
90	7200	7200	7	16	25	33	40	48	56.5	65
100	8000	8000	5	14	22.5	29	36	43.0	50.5	58
GXT5LI-10KGVRT3UXLN										
10	1000	1000	52	107.5	162	217	271.5	326	381	435.5
20	2000	2000	29.5	58	88.5	119	149	179	209	239.5
30	3000	3000	19	39	59.5	80.5	101.5	122	142.5	163
40	4000	4000	14.5	30.5	44	59.5	75	90.5	106	121.5
50	5000	5000	10.5	24	35	47	59	71.5	84	96.5
60	6000	6000	8.5	19.5	30	38.5	48.5	58.5	69	79.5
70	7000	7000	7	16.5	25.5	34	41	49.5	58.5	67
80	8000	8000	5	14	22.5	29	36	43	50.5	58
90	9000	9000	4	11.5	19.5	26.5	32.5	38	44.5	51
100	10000	10000	3.5	10.5	17.5	23.5	29.5	34.5	40	46

Network Communication Cards and environmental sensors

Optional Intellislot cards are compatible with all Vertiv™ Liebert® GXT5 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.
	IS-RELAY	Vertiv™ Liebert® IntelliSlot™ Interface Kit for Relay Contacts
Vertiv™ Liebert® IntelliSlot™ 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 (Vertiv Liebert RDU-S only)
Vertiv™ Liebert® IntelliSlot™ RDU120 Card Environmental Sensors**	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.
	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

Optional Accessories

External battery cabinets and replacement battery kits

UPS	External Battery Cabinet (quantity)
GXT5LI-5000GVRT3UXLN	VEBCLI-192VRT1U (1)
GXT5LI-6000GVRT3UXLN	VEBCLI-192VRT1U (1)
GXT5LI-8000GVRT3UXLN	VEBCLI-192VRT1U (1)
GXT5LI-10KGVRT3UXLN	VEBCLI-192VRT1U (1)

*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.





Comprehensive Service Support for Critical Systems

Power Emergency Package

The Power Emergency Package provides on-site emergency support with 100% parts and labor coverage. Adding Vertiv services to your Vertiv™ Liebert® GXT5 Li-Ion single-phase UPS ensures you are protected during an emergency. Includes:

- Five-year service coverage.
- Includes 24 x 7 professional helpline.
- 24 x 7 access to 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.
 - 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.

Note	Description	Service item Code	For UPS Models
Power Emergency package (24 x 7)*	Power emergency after business hour (5 years) start-up/installation after business hour	88028901	GXT5LI-5000GVRT3UXLN
		88028921	
		88028902	GXT5LI-6000GVRT3UXLN
		88028922	
		88028903	GXT5LI-8000GVRT3UXLN
		88028923	
		88028904	GXT5LI-10KGVRT3UXLN
		88028924	
Power Emergency package (8 x 5)*	Power emergency business hour (5 years) start-up/installation business hour	88028909	GXT5LI-5000GVRT3UXLN
		88028925	
		88028910	GXT5LI-6000GVRT3UXLN
		88028926	
		88028911	GXT5LI-8000GVRT3UXLN
		88028927	
		88028912	GXT5LI-10KGVRT3UXLN
		88028928	

Note: *Need to order both part numbers at the same time to get all scope for power emergency package.

