Vertiv™ Liebert® GXE UPS

6 – 10 kVA 230V

Essential and Affordable UPS for High Performance Power Protection



Essential and affordable Uninterruptible Power Supply (UPS) for high performance power protection

The Vertiv™ Liebert® GXE UPS in an online double conversion solution which offers power protection in an affordable, efficient system with deployment and operation flexibility.

The unity output power factor (1.0) of the Liebert® GXE single-phase UPS enables continuous and reliable power to more connected devices, protecting them against many disturbances in the AC mains with the online double conversion technology and input surge protection.

The high efficiency in both online and ECO modes of operation for this already affordable UPS also drives energy and operational costs savings.

Available in 6 or 10kVA power ratings, it provides flexibility for mounting in either tower position or inside a rack cabinet, together with the IT equipment critical for any application. Moreover, the capability to add external battery cabinets provides scalable runtime for those applications requiring even a longer period of backup in case of AC mains failures.

In addition to the extended runtime, having multiple monitoring options make this compact UPS ideal for delivering best-in-class power protection to equipment at the edge of networks or in remote sites.

What's In The Box

- Vertiv™ Liebert® GXE UPS
- Quick Installation Guide
- Safety Instructions
- Adjustable 4-post rack mounting kit
- Rack mounting ears/hardware
- USB type A to B cable (1.2 m)
- Stabilizing feet for tower configuration
- Free Vertiv™ Power Assist software for local UPS status and shutdown, or Vertiv™ Power Insight for remote network status and shutdown

Vertiv™ Liebert® GXE Features

- High output power factor (1.0)
- Full-color graphic LCD with gravity sensing orientation
- High efficiency in online mode (up to 94%)
- Even higher efficiency (up to 98%) in ECO mode
- Flexible rack/tower design, with rack mount kit included
- Extended runtime with up to 4 External Battery Cabinets (EBC)
- Hot-swappable user replaceable internal UPS batteries
- Easy to install, configure and operate
- Remote management capability with optional Network Communications Card
- Wide input frequency operation (40-70Hz) without any power derating
- Automatic internal bypass
- Free UPS management software
- Fast recharge time (3 hours @90%)
- Compatible with Vertiv™ LIFE™ Service to maximize UPS availability



Vertiv™ Liebert® GXE 6kVA shown with an optional 2U external battery cabinet

Vertiv™ Liebert® GXE Features

High output power factor (1.0)

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

Colored graphic LCD display with gravity orientation

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

Internal charger

Powerful integrated charger, for 3 hours @90% internal batteries. Up to 4Amps maximum with EBCs connected.



Compact Rack / Tower design

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



Hot-swappable user replaceable batteries

Easy replacement of the internal batteries without power interruption.

Remote monitoring

Vertiv™ Liebert® IntelliSlot™ for operation with optional Network Communications Card.

Efficiency (up to 94%) in online mode and up to 98% in ECO mode

Higher efficiency means an optimized energy management and lower heat dissipation, thus providing energy savings and improved reliability.

External battery cabinets

Up to 4 external battery cabinets can be connected for applications.

Vertiv™ Liebert® GXE Applications

Market segments

- Edge and Network Closets
- Finance and Banking
- Education
- Healthcare
- Retail
- Government
- Manufacturing and Light Industrial
- Telecom

Applications

- Servers
- Storage Systems
- PBX and VoIP telephony
- CCTV equipment
- Switches and hubs
- Distributed and Control Processes
- Security Control & Access
- Medical office equipment

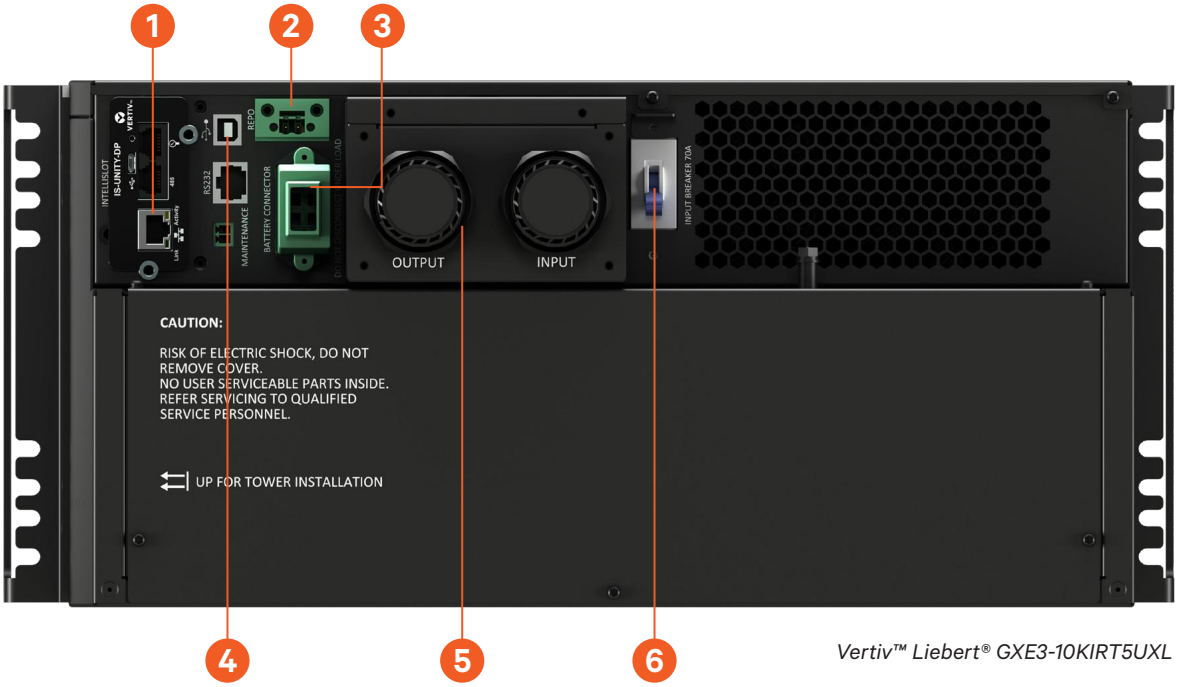


UPS Rear View



Vertiv™ Liebert® GXE3-6000IRT4UXL

1. Slot for Vertiv™ Liebert® Intellislot™ network cards for remote management
2. Emergency Power Off (EPO)
3. External Battery Cabinet Connector
4. Communications
5. I/O Terminal Block
6. Input Breaker



Vertiv™ Liebert® GXE3-10KIRT5UXL

Note: network management card is optional.

Technical Specifications Vertiv™ Liebert® GXE

	GXE3-6000IRT4UXL	GXE3-10KIRT5UXL
Power Rating (VA/W)	6000VA / 6000W	10000VA / 10000W
Form Factor	Rack / Tower (4U)	Rack / Tower (5U)
Dimensions, mm		
Unit (W x D x H)	430 x 750 x 173	430 x 700 x 217
Shipping (W x D x H)	600 x 850 x 480	600 x 800 x 530
Weight, kg		
Unit	70	80
Shipping	92	102
Input AC Parameters		
Voltage Range Without Battery Operation (230V default, derating applies)*	100 - 288	100 - 288
Voltage Range Without Battery Operation (230V default, 100% load)	176 - 288	178 - 288
Frequency Range (Hz, autosensing)	40 - 70	40 - 70
Input Wiring	Hardwired (terminals L-N-G)	Hardwired (terminals L-N-G)
Surge Protetion (J)	600	600
Output AC Parameters		
Output Voltage	220/230 (default) /240	220/230 (default) /240
Waveform	Pure Sine Wave	Pure Sine Wave
Output Overload (AC Mode)	105% - 125% @ 5 min 126% - 150% @ 1 min > 150% @ 200 ms	105% - 125% @ 5 min 125% - 150% @ 1 min > 150% @ 200 ms
Output wiring	Hardwired (terminals L-N-G)	Hardwired (terminals L-N-G)
Efficiency (online mode, max.)	94%	94%
Efficiency (ECO mode, max.)	98%	98%
Battery		
Type	Valve-regulated, non-spillable, lead-acid	Valve-regulated, non-spillable, lead-acid
Recharge Time (internal batteries, typical)	3 hr @ 90%	3 hr @ 90%
Backup Time (100% load, minutes)	5	3.5
Backup Time (50% load, minutes)	14	9
Comaptible External Battery Cabinet	GXE3-EBC192VRT2U	GXE3-EBC240VRT3U
Environmental		
Operating Temperature (ºC)	0 to 40ºC	0 to 40ºC
Storage Temperature (ºC, without battery inside)	-20ºC to +70ºC	-20ºC to +70ºC
Relative Humidity (operation, non-condensing)	5% to 95%	5% to 95%
Operating Altitude (m), without derating (**)	2000	2000
Audible Noise (line mode)	<55dBA	<58dBA
Agency		
Compliance	CE, CB Report, EAC, UKCA, Morocco, RCM	CE, CB Report, EAC, UKCA, Morocco, RCM
Safety	IEC/EN 62040-1	IEC/EN 62040-1
Transportation	ISTA 3E	ISTA 3E
Environmental	RoHS, REACH, WEEE	RoHS, REACH, WEEE
Communications and Management		
Slot for optional cards	Yes	Yes
Communication port	USB	USB
Emergency Power Off (EPO)	Yes	Yes
Warranty		
Warranty (electronics and batteries)	2 years	2 years

(*) Note: Specific conditions or power derating applies.
(**) Note: Up to 3000 m with power derating.

External Battery Cabinets

Dimensions, mm	GXE3-EBC192VRT2U	GXE3-EBC240VRT3U
Unit (W x D x H)	430 x 765 x 85	430 x 645 x 130
Shipping (W x D x H)	600 x 850 x 405	600 x 800 x 450
Weight, kg		
Unit	58.4	66.9
Shipping	78	85
Agency		
Compliance	CE, CB Report, EAC, UKCA, Morocco	CE, CB Report, EAC, UKCA, Morocco

Network Communication Cards and environmental sensors

Optional Intellislot cards are compatible with all Liebert® PSI5 UPS systems

Network Communications	RDU120	Network Communication Card with 10/100/1000 Mbps Ethernet, web interface, SNMP, BACnet IP/MSTP, Modbus TCP/RTU and environmental sensor support. UL-2900-1 certified, IEC 62443-4-2 certification pending (est. 2H 2025).. Includes a configuration cable.
	IS-UNITY-SNMP	10/100 Mbit Ethernet SNMP, Device Web Page, with MIB and configuration cable
	IS-UNITY-DP	Same as IS-UNITY-SNMP plus SN series environmental sensor support
	IS-RELAY	Intellislot Interface Kit for Relay Contacts
UNITY 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)
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

Vertiv™ Liebert® External Battery Cabinets

UPS Model	External Battery Cabinet
GXE3-6000IRT4UXL	GXE3-EBC192VRT2U
GXE3-10KIRT5UXL	GXE3-EBC240VRT3U



Vertiv™ Liebert® Internal Replacement Battery Kits

UPS Model	Replacement Battery Kit
GXE3-6000IRT4UXL	GXE3-192VBATKIT
GXE3-10KIRT5UXL	GXE3-240VBATKIT



Vertiv™ Liebert® Maintenance Bypass Cabinets

UPS Model	MBC Model	Output Distribution
GXE3-6000IRT4UXL	VMBC-20KIRT4U	Hardwired, 3 x IEC60309, 12 x IEC C13-C19 combo outlets
GXE3-10KIRT5UXL	VMBC-20KIRT4U	Hardwired, 3 x IEC60309, 12 x IEC C13-C19 combo outlets



UPS Runtime Tables

Vertiv™ UPS Interactive Runtime Tool

Vertiv™ Liebert® GXE 6kVA							
GXE3-6000IRT4UXL				Quantity of EBCs			
Load(%)	VA	Watts	Internal Battery Only	1	2	3	4
100%	6000	6000	5,5	15	26	39	52
70%	4200	4200	9	24	42	60	78
50%	3000	3000	14	38	63	88	115
20%	1200	1200	47	108	173	240	310

Vertiv™ Liebert® GXE 10kVA							
GXE3-10KIRT5UXL				Quantity of EBCs			
Load(%)	VA	Watts	Internal Battery Only	1	2	3	4
100%	10000	10000	3,6	10	18	27	36
70%	7000	7000	6	16	29	43	57
50%	5000	5000	9	26	45	64	83
20%	2000	2000	34	80	130	181	233

Note: *Approximate runtimes at 25°C for batteries in new conditions, fully recharged and pure resistive load.*
Actual runtimes can vary due to battery age, temperature or configuration.

Comprehensive Service Support for Critical Systems

Power Emergency Package

Providing more than the standard warranty and extension program, this five-year protection program is valid for Vertiv™ Liebert® GXE single-phase UPS. Purchased within six months from the equipment purchase date, the program includes:

- Advance replacement or repair of faulty unit with eight working hours or incident ticket acknowledgement meaning a maximum of two working days after claim.
- 100% coverage of electronic parts and failed batteries excluding battery misuse and/or reduced autonomy.
- 24x7 access to professional helpline.
- Free shipping from the following European countries: Albania, Austria, Belgium, Bosnia & Herzegovina, Croatia, Czech Republic, France, Germany, Greece, Ireland, Italy, Kosovo, Luxemburg, Macedonia, Malta, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, The Netherlands, Turkey, and United Kingdom.
- Preventive Monitoring and Diagnostic Service purchasing the Premier version of the package.

Installation and Start-up Services

Installation and Start-up Services provide on-site technical support for installation and start-up of your UPS or battery cabinet, enabling you get up and running as quickly as possible.

Vertiv™ Liebert® GXE Model	Power Emergency	Power Emergency Premier	Warranty Extension +1	Warranty Extension +3	Start-Up 8x5	Start-Up 24x7
GXE3-6000IRT4UXL	RUPS-PE5-005	RUPS-PEP5-005	RUPS-WE1-005	RUPS-WE3-005	PS-RUPS-ST85-005	PS-RUPS-ST247-005
GXE3-10KIRT5UXL	RUPS-PE5-006	RUPS-PEP5-006	RUPS-WE1-006	RUPS-WE3-006	PS-RUPS-ST85-006	PS-RUPS-ST247-006
GXE3-EBC192VRT2U	-	-	RUPS-WE1-005	RUPS-WE3-005	-	-
GXE3-EBC240VRT3U	-	-	RUPS-WE1-005	RUPS-WE3-005	-	-

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

Vertiv™ VRC
Keep critical IT equipment cool with a dedicated high-efficiency rack-mount cooling system with scalable capacity.



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

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

Vertiv™ Liebert® GXE
Helps to protect mission critical equipment in the event of power loss or extreme power fluctuations.



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SL-71028 (R06/25)