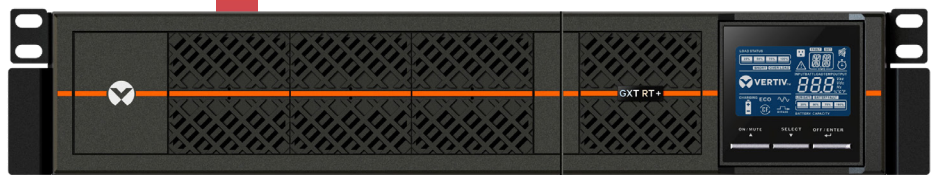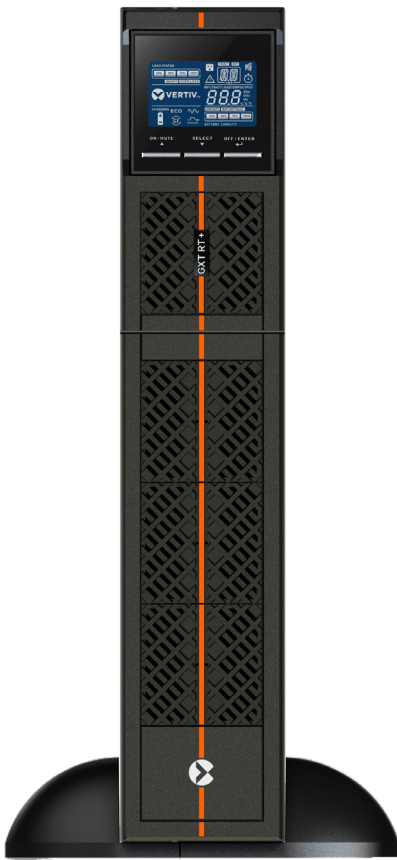# Vertiv™ Liebert® GXT RT+ UPS

1000 - 3000 VA 230 V

Essential and Affordable UPS for High Performance Protection

About Vertiv™

VVertiv brings together hardware, software, analytics, and ongoing services to ensure its customers' vital applications run continuously, perform optimally and grow with their business needs. Vertiv solves the most important challenges faced by today's data centers, communication networks, and commercial and industrial facilities with a portfolio of power, cooling, and IT infrastructure solutions and services that extends from the cloud to the edge of the network. Headquartered in Columbus, Ohio, USA, Vertiv employs around 20,000 people and does business in more than 130 countries. For more information, and for the latest news and content from Vertiv, visit Vertiv.com.

Vertiv.com

OUR PURPOSE

We believe there is a better way to meet the world's accelerating demand for data - one driven by passion and innovation.

OUR PRESENCE

GLOBAL PRESENCE
Manuf. and Assembly Locations **19**
Service Centers **270+**
Service Field Engineers **2,700+**
Technical Support/Response **330+**
Customer Experience Centers/Labs **17**

US AND CANADA
Manuf. and Assembly Locations **7**
Service Centers **120+**
Service Field Engineers **850+**
Technical Support/Response **120+**
Customer Experience Centers/Labs **4**

LATIN AMERICA
Manuf. and Assembly Locations **1**
Service Centers **20+**
Service Field Engineers **300+**
Technical Support/Response **25+**
Customer Experience Centers/Labs **2**

EUROPE, MIDDLE EAST AND AFRICA
Manuf. and Assembly Locations **5**
Service Centers **70+**
Service Field Engineers **600+**
Technical Support/Response **95+**
Customer Experience Centers/Labs **6**

ASIA PACIFIC
Manuf. and Assembly Locations **6**
Service Centers **60+**
Service Field Engineers **950+**
Technical Support/Response **90+**
Customer Experience Centers/Labs **5**

Essential and Affordable Uninterruptible Power Supply (UPS) for High Performance Protection

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

The high 0.9 power factor of the single-phase Liebert GXT RT+ enables continuous, reliable power to more connected devices from a wide range of input voltages while being energy efficient and, delivering maximum value.

The ECO mode of operation for this already affordable UPS also drives energy cost savings for a compelling total cost of ownership (TCO).

Being able to mount the Liebert GXT RT+ in a rack or tower is a convenience that adds to the value story as does the capability of the UPS to utilize external battery cabinets for scalable runtimes.

In addition to the extended runtime, having multiple monitoring options makes this compact UPS ideal for delivering best-in-class power protection to equipment deployed at the edge of networks or in space-constrained facilities.

Liebert® GXT RT+ Features

- Online technology with two stages of power conversion

- Output power factor higher than majority of comparable competitor models

- Flexible rack/tower form factor

- External battery cabinet compatibility

- User-friendly liquid crystal display (LCD)

- High efficiency ECO mode

- User replaceable hot-swappable batteries

- Wide input voltage operation (120-300V AC)

- RoHS and REACH compliance

- Overload Protection

What's in the box?

- Liebert GXT RT+ UPS

- USB Cable type A to B cable

- Quick Installation Guide

- Safety Instructions

- 2 x IEC C13 to C14 output cables (1.8 m)

- Input power cables (UK, AUS, Schuko, 1.8 m)

- Stabilizing feet for tower configuration

- Adjustable 4-post rack mounting kit, with screws, ears and hardware

- UPS Management Software (free download from Vertiv.com)
  - **Vertiv™ Power Insight** for remote management and **ViewPower** for USB/RS232 direct connect

Vertiv™ Liebert® GXT RT+ UPS Features and Benefits

Compact, flexible form factor
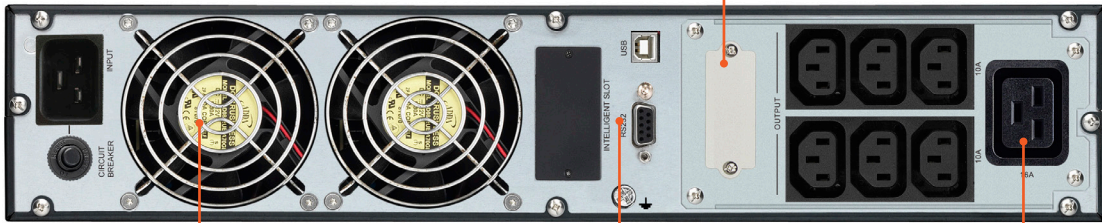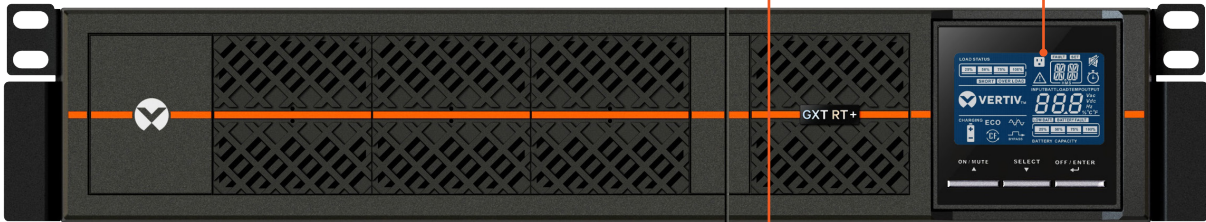Option of rack or tower mounting supports simplified UPS selection and deployment.

External battery cabinet capability
Connected modules enable scalable runtime during failure of main utility power.

User-friendly interface
Intuitive LCD provides complete UPS status and configuration information at a glance.

High efficiency ECO mode
Configurable operation mode for up to 95% efficiency helps to achieve energy savings and a lower TCO.

Network Management Compatibility
Network interface or serial connections enable remote access to UPS for monitoring and configuration of alert notification parameters.

High Output Power Factor (0.9)
More usable power enables more connected loads for space and cost savings.cost savings.

Note: Front panel is the same for all power ratings while rear panels will vary. Rear panel is for 3 kVA.

Technical Specifications

	GXTRT-1000IRT2UXL	GXTRT-1500IRT2UXL	GXTRT-2000IRT2UXL	GXTRT-3000IRT2UXL
Ratings (VA/W)	1000/900	1500/1350	2000/1800	3000/2700
Dimensions, Millimeters				
Unit W x D x H	438 x 310 x 88	438 x 462 x 88	438 x 462 x 88	438 x 632 x 88
Shipping (W x D x H)	600 x 500 x 240	700 x 565 x 240	700 x 565 x 240	600 x 760 x 240
Weight, Kilograms				
Unit	11	14.5	18.2	27.6
Shipping	16.3	22.3	24.7	34.1
Input AC Parameters[1]				
Input Voltage Range(VAC)	120-300	120-300	120-300	120-300
Frequency Range (Hz)	40-70	40-70	40-70	40-70
Input Power Connector	IEC60320 C14	IEC60320 C14	IEC60320 C14	IEC60320 C20
Output AC Parameters				
Output Receptacles	6 x IEC60320 C13	6 x IEC60320 C13	6 x IEC60320 C13	6 x IEC60320 C13 1 x IEC60320 C19
Output Voltage (VAC)	220/230/240 VAC ±1%	220/230/240 VAC ±1%	220/230/240 VAC ±1%	220/230/240 VAC ±1%
Waveform	Pure Sine wave	Pure Sine wave	Pure Sine wave	Pure Sine wave
Output (AC Mode) Overload	<130% for 30 seconds <150% for 3 seconds	<130% for 30 seconds <150% for 3 seconds	<130% for 30 seconds <150% for 3 seconds	<130% for 30 seconds <150% for 3 seconds
Output Frequency	50/60Hz (Selectable)			
Output Voltage Harmonic Distortion (THDv)	<3% (with linear-load)			
Overload Protection	Yes			
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
Recharge Time (internal batteries, typical)	4 hr @90%	4 hr @90%	4 hr @90%	4 hr @90%
Battery Life[2]	3-5 years (Estimation with site temperature ≤ 25 ºC and ≤200 discharge cycles)			
Battery Test Function[3]	Yes (via WEBPROCARD SNMP card)			
Environmental Requirements				
Operating Temperature, °C (°F)	0 to 40 (32 to 104)	0 to 40 (32 to 104)	0 to 40 (32 to 104)	0 to 40 (32 to 104)
Storage Temperature, °C (°F)	-20 to 50 (-4 to 122)	-20 to 50 (-4 to 122)	-20 to 50 (-4 to 122)	-20 to 50 (-4 to 122)
Relative Humidity (%, non-condensing)	0~90%			
Operating Elevation (m, without derating)	<2,000m	<2,000m	<2,000m	<2,000m
Noise Level (line mode)	50dBA	50dBA	50dBA	55dBA
Agency				
Compliance	CE, CB report	CE, CB report	CE, CB report	CE, CB report
Safety	IEC/EN 62040-1			
Electromagnetic Interference (EMI)	IEC/EN 62040-2 Cat. C1			
Surge Immunity	EN 61000-4-5			
Transportation	ISTA 2A	ISTA 2A	ISTA 2A	ISTA 2A
Environmental	RoHS2 / REACH / WEEE			
Warranty				
Warranty	2 years			
External Battery Cabinets	GXTRT-EBC24VRT2U	GXTRT-EBC36VRT2U	GXTRT-EBC48VRT2U	GXTRT-EBC72VRT2U
Dimensions Unit (W x D x H, mm)	438 x 410 x 86	438 x 410 x 86	438 x 510 x 86	438 x 630 x 86
Weight (kg)	16.2	21.2	28.6	40.8
Compliance	CE, EAC, UKCA, Morocco	CE, EAC, UKCA, Morocco	CE, EAC, UKCA, Morocco	CE, EAC, UKCA, Morocco

Note:

[1]Specific conditions or power derating applies.

[2]In order to meet estimate 3-5 years Battery life these condition must meet. The VRLA battery life will be less than 3 years if site temp >30 ºC & battery storage capacity expecting ≤60% when reaching 200 depth discharge cycles.

[3]Please note, the GXT RT+ cannot configure battery test function on UPS itself. The battery test function can perform via SNMP card & test result will only shown in event logs. On SNMP card.

Vertiv™ Liebert® GXT RT+ UPS

UPS Runtime Table

Load %	GXTRT-1000IRT2UXL	GXTRT-1500IRT2UXL	GXTRT-2000IRT2UXL	GXTRT-3000IRT2UXL
100%	3.1	3.2	3.2	3.3
50%	9	9	10	10.5
25%	19	21	23	26
75%	5	5	5.7	5.8

In minutes. With internal batteries and batteries fully charged.

Runtime tool available at:
https://www.vertiv.com/en-asia/support/tools-applications/vertiv-ups-interactive-runtime-tools/vertiv-tliebert-gxt-rt-ups

Accesories and Options

Vertiv™ Liebert® MicroPOD – Maintenance Bypass and Output Distribution

The Liebert® MicroPOD (Power Output Distribution) is a maintenance bypass option for UPS products, 3kVA and below. It allows removal of the UPS without powering down the connected equipment.

UPS Model	MicroPOD Model	Input socket	Output receptacles
GXTRT-1000IRT2UXL			
GXTRT-1500IRT2UXL	MP2-210K	IEC60320-C14	8 x IEC60320-C13
GXTRT-2000IRT2UXL			
GXTRT-3000IRT2UXL	MP2-220L	IEC60320-C20	6 x IEC60320-C13 & 1 x IEC60320-C19

Communication Cards

Optional communication cards are compatible with all Liebert® GXT RT+ models.

Model	Description
GXT-MTPLUSAS400	AS400 card for GXT-MTPLUS
WEBPROCARD	SNMP Management Card for GXT-MTPLUS with FREE centralized monitoring software

External Battery Cabinets

UPS Model	External battery cabinet
GXTRT-1000IRT2UXL	GXTRT-EBC24VRT2U
GXTRT-1500IRT2UXL	GXTRT-EBC36VRT2U
GXTRT-2000IRT2UXL	GXTRT-EBC48VRT2U
GXTRT-3000IRT2UXL	GXTRT-EBC72VRT2U

Key Applications

IT
- Servers
- Networking equipment
- Data storage

Finance
- Branch offices
- Closed-circuit televisions and data protection
- ATMs

Telecom
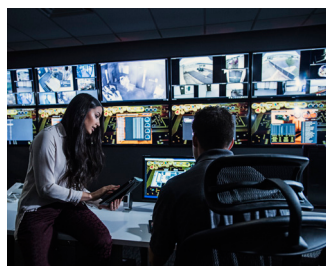- 5G mobile stations
- Access and "last mile"
- Small control rooms

Industrial
- Manufacturing sites
- Control equipment and programmable logic controllers (PLCs)
- Data and networking equipment

Education
- Networking closets
- Networking equipment
- Office protection

Government
- Distributed offices
- Closed-circuit television (CCTV) and data protection
- Small server and storage rooms

Retail
- Several point of sale systems
- Networking and wiring closets
- Security and voice over internet protocol (VoIP) telephony

Edge
- Distributed cloud services
- Content providers
- Sensors and data stations

Comprehensive Services for Critical Systems

Note	Part Number	Description 1	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.	88026969 88028371	GXT RT+ VRLA 1-3kVA	Start-up/Installation Power Emergency Business Hour Contract (2 Years)	Power Emergency (8x5) GXT RT+ VRLA
Need to order both part numbers at the same time to get all scope for Power Emergency package (24x7). Please see SOW below.	88026977 88028372	GXT RT+ VRLA 1-3kVA	Start-up/Installation Power Emergency After Hour Contract (2 Years)	Power Emergency (24x7) GXT RT+ VRLA

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 Liebert® GXT RT+ VRLA UPS ensures you are protected during an emergency. Includes:

- Two-year service coverage
- Guaranteed 2-4 hours on-site emergency response, 5 days/week, 8 hours/day, within 100 kms of a Vertiv's Service City.
- Includes 24x7 professional Help line
- 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 Liebert® GXT RT+ VRLA UPS ensures you are protected during an emergency. Includes:

- Two-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

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Vertiv-Liebert GXT RT+ Brochure-VN-BD (R01/081123)