



Vertiv™ Liebert® GXT MT+ EX UPS

1-3 kVA

Essential and Affordable
UPS for High Performance
Power Protection



KEY FEATURES

- IGBT Based Rectifier
- Digital Signal Processors (DSP) Control Technology for High Performance and Reliability.
- Equipped with intuitive and broad LCD Display.
- Double Conversion Efficiency up to 92%
- Active Input Power Factor (PF) Correction 0.99.
- 0.9 Output Power Factor
- Wide Input Voltage window (110 Vac to 280 Vac) for Indian Environmental Condition.
- Configurable Output Voltage (208 Vac/220 Vac/230 Vac/240 Vac)
- Generator Compatible with Wide Input Frequency Range (40 Hz to 70 Hz)
- 4 Stage, Extendable Charging Design for optimized Battery Performance.
- Adjustable Battery Charging Current 1 A/2 A/4 A/6 A according to Battery Capacity and Rating.
- 50 Hz/60 Hz Automatic Frequency Converter Mode.
- Inbuilt Over Voltage Cut-Off device (OVCD) feature

Applications

- Workstations
- Small/Medium server rooms
- Data center
- Network Closet
- (VoIP) Voice over Internet Protocol

The Vertiv™ Liebert® GXT MT+ EX UPS in an Online Double Conversion Uninterruptible Power Supply (UPS) solution designed to provide a capacity of 1-3 kVA, with extended runtime capabilities and is an affordable UPS for high-performance power protection.

Intelligent Management Functions

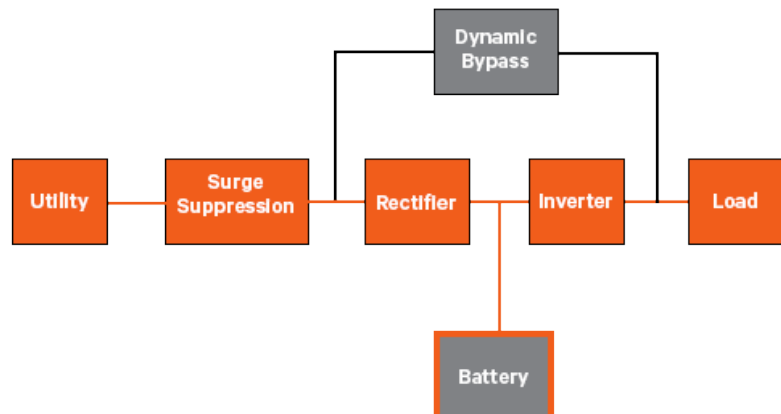
- Intelligent Remote Monitoring is available via the Standard USB/RS232 ports/USB Port Plus Slot Available for RS485; alternatively, dry contacts and SNMP are optional methods; support TCP/IP with event logs and analysis function.
- SNMP Management Card (optional) allows remote monitoring via RJ45 connection ports; allows the management of several UPS systems via the Internet; Real-time dynamic graphs of the UPS data, warning notifications via audible alarms, broadcast, and mobile.



Vertiv™ Liebert® GXT MT+ EX (1-3 kVA)

Online Double Conversion UPS Protection

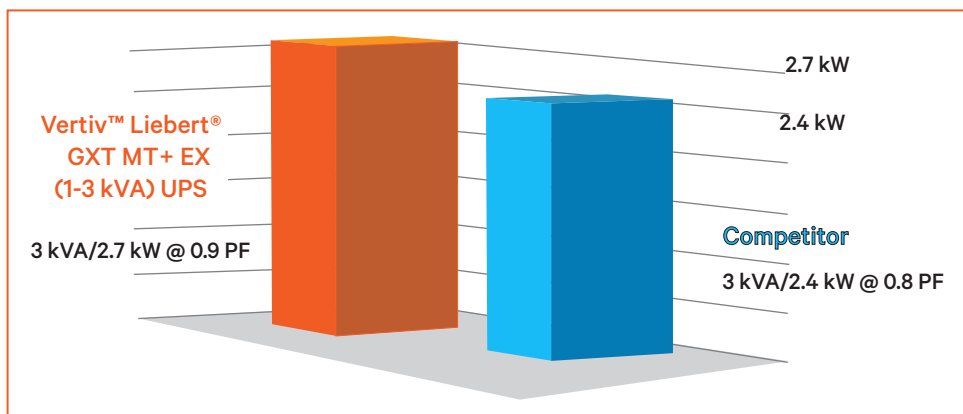
The on-line double conversion UPS delivers continuous, high-quality AC power to connected equipment with no interruption when transferring to battery. It provides protection from blackouts, brownouts, sags, surges or noise interference. The Liebert® GXT MT+ EX UPS is a true on-line power source, which means power is always being conditioned and supplied to the connected device(s), whatever the quality of power coming in, a pure sine wave output results to ensure equipment is protected.



Output Power Factor

The Vertiv™ Liebert® GXT MT+ EX UPS delivers 0.9 output power factor, therefore, the active power is 12% higher than that of a UPS with 0.8 PF.

As a result, Liebert® GXT MT+ EX UPS prevents the need for system oversizing while delivering the same level of power to the load.



Communication and Display Option

SNMP Card

- Network Monitoring SNMP Card, Used for Remote TCP/IPWeb Monitoring.
- Supporting remote shutdown.



Dry Contact Card

- Dry contact for UPS, providing four relay signal output.



Mod Bus Card

- Select it when UPS needs to communicate with Building Management System.

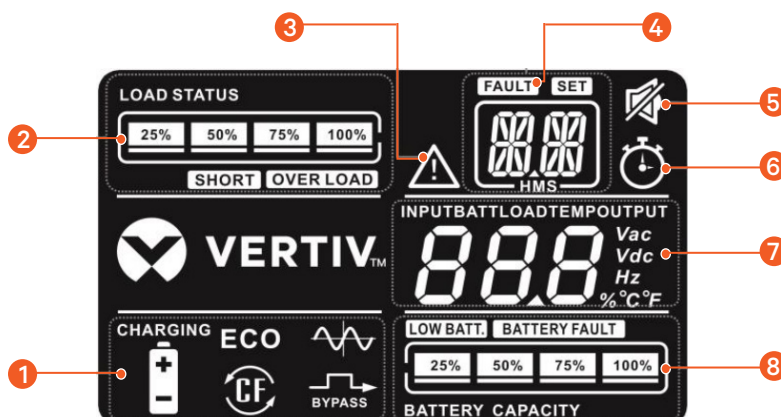


Advanced LCD Display:

- New graphical display which presents UPS parameters, fault codes, alarms.
- Fault type is clearly mentioned on the display for fast diagnostic.
- LCD display provides maximum operational convenience while managing the UPS.

LCD Display

- 1 Mode operation information
- 2 Load information
- 3 Warning indicator
- 4 Fault and warning Information/Setting operation/Backup time setting
- 5 Mute operation
- 6 Backup time indicator
- 7 UPS information
- 8 Battery information



Technical Specifications

MODEL	Vertiv™ Liebert® GXT MT+ EX 1 kVA	Vertiv™ Liebert® GXT MT+ EX 2 kVA	Vertiv™ Liebert® GXT MT+ EX 3 kVA
Phase	1 Phase-In/Phase-Out		
Capacity	1000 VA/900 W	2000 VA/1800 W	3000 VA/2700 W
Input Parameters			
Nominal Voltage	230 Vac		
Low Line Transfer (Voltage Range)	180 Vac/160 Vac/140 Vac/120 Vac ± 5% (Ambient Temperature < 35 °C) (Based on load percentage 100% to 80%; 80% to 70%; 70% to 60%; 60% to 0%)		
Low Line Comeback (Voltage Range)	195 Vac/175 Vac/155 Vac/145 Vac ± 5% (Ambient Temperature < 35 °C) (Based on load percentage 100% to 80%; 80% to 70%; 70% to 60%; 60% to 0%)		
High Line Transfer (Voltage Range)	300 Vac ± 5%		
High Line Comeback (Voltage Range)	290 Vac ± 5%		
Frequency Range	40 Hz to 70 Hz		
Power Factor	≥ 0.99 @ 100% load		
Output Parameters			
Nominal Voltage	208* Vac/220 Vac/230 Vac/240 Vac		
AC Voltage Regulation	± 1%		
Frequency Range (Synchronized Range)	(47 Hz to 53 Hz) or (57 Hz to 63 Hz)		
Frequency Range (Battery Mode)	(50 Hz ± 0.25 Hz) or (60 Hz ± 0.3 Hz)		
Current Crest Ratio	3 : 1 (maximum)		
Harmonic Distortion	≤ 3 % THD (Linear Load), ≤ 6 % THD (Non-linear Load)		
Transfer Time Bypass to Inverter (Line mode)	Zero		
Transfer Time Inverter to Bypass (Line mode)	4 millisecond (ms) (Typical)		
Waveform (Battery Mode)	Pure Sine wave		
Efficiency on AC to AC mode @ 100% load.	90%	90%	90%
Battery			
Battery Type (Standard Run Model)	12 V/9 Ah	12 V/9 Ah	12 V/9 Ah
Numbers (Standard Run Model)	2	4	6
Typical Recharge Time (Standard Run Model)	4 hours recover to 90% capacity (Typical)		
Charging Current (maximum) (Standard Run Model)	1.0 A		

MODEL	Vertiv™ Liebert® GXT MT+ EX 1 kVA	Vertiv™ Liebert® GXT MT+ EX 2 kVA	Vertiv™ Liebert® GXT MT+ EX 3 kVA
Charging Voltage (Standard Run Model)	27.4 Vdc ± 1%	54.7 Vdc ± 1%	82.1 Vdc ± 1%
Battery Type (Long Run Model)	Depending on the capacity of external batteries		
Numbers (Long Run Model)	3	6	6
Charging Current (Long Run Model)	1.0 A/2.0 A/4.0 A/6.0 A (6.0 A by default)		
Float Charging Voltage (Long Run Model)	41.0 Vdc ± 1%	82.1 Vdc ± 1%	82.1 Vdc ± 1%
Indicators			
LCD Panel	UPS status, load level, battery level, input/output voltage, discharge timer, and fault conditions		
Alarm			
Battery Mode	Sounding every 4 seconds		
Low Battery	Sounding every second		
Overload	Sounding twice every second		
Fault	Continuously sounding		
Physical			
(Standard Run Model) Dimension, D × W × H (mm)	282 × 145 × 220	397 × 145 × 220	421 × 190 × 318
(Standard Run Model) Net Weight (kg)	9.8	17	27.6
(Long Run Model) Dimension, D × W × H (mm)	282 × 145 × 220	397 × 145 × 220	
(Long Run Model) Net Weight (kg)	4.1	6.8	7.4
Environment			
Operation Humidity and Temperature	20% to 90% RH @ 0 °C to 50 °C** (non-condensing)		
Noise Level	Less than 50 dBA @ 1 meter (m)		
Management			
Smart RS232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC		
Optional SNMP	Power management from SNMP manager and web browser		

(*) Note: Derate to 70% of capacity in Frequency converter mode or when the output voltage is adjusted to 208 Vac.

(**) Note: UPS derates to 70% capacity at 50 °C

Note: The specifications are subject to change without any prior notice.

Runtime Chart

Model	25%	50%	75%	100%
1 kVA	19 min	8 min	4 min	2 min
2 kVA	19 min	8 min	4 min	2 min
3 kVA	19 min	8 min	4 min	2 min

Note: These are approximate back-up times. Actual Back-up may vary depending on site and load conditions.

Note: This run chart is applicable only for the Standard Backup (SB) models.



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