## **Liebert GXT-MT+ Series**



## **FEATURES**

- IGBT Based Rectifier
- True Online Double Conversion with DSP Control Technology for High Performance and Reliability.
- New Graphical LCD Display Provides UPS Data, Alarms and Helps in faults diagnostics and trouble shooting.
- Double Conversion Efficiency upto 90%.
- Active Input Power Factor Correction 0.99.
- 0.8 Output Power Factor.
- Wide Input Voltage window (110 - 280 Vac) for Indian Environmental Condition and for Optimized Battery Performance.
- Configurable Output Voltage (200/208/220/230/240 Vac.)
- Generator Compatible with Wide Input Frequency Range (40 Hz-70 Hz).
- 4 Stage Extendable Charging Design for optimized Battery Performance.
- Adjustable Battery Charging Current 1/2/4/6 Amps according to Battery Capacity and Rating.
- 50/60 Hz Automatic Frequency Converter Mode.
- Intelligent Monitoring with Standard RS232/USB Port Plus Slot Available for RS485/Dry Contact/SNMP Card.
- Inbuilt OVCD.

\* Adjustable Battery Charging Current 2/4/6/8/10/12/14/16 Amps according to Battery Capacity Rating. True Online Double Conversion UPS With Optional Built - in Galvonic isolation & With Extended Runtime Capabilities

Liebert GXT MT+ Series systems is true double conversion online UPS systems designed to provide with a capacity of 1,2,3,6 & 10kVA. Liebert GXT MT+ units feature total isolation of the load from the mains - isolating input and output sections, and making the systems ideal for Data Networks/Small Data Centers/VOIP Applications application. The units support hot standby configuration, making them suited for critical applications like banks.



Liebert GXT-MTX+ 6kVA

## Liebert GXT-MT+ CX 1/2/3 kVA Liebert GXT-MT+ CX 1/2/3 kVA XB\*

**VERTIV** 



Liebert GXT-MT+ 6 & 10 kVA



			t GXT MT Serie		1		
MODEL		GXT MT+ CX 1 kVA	GXT MT+ CX 2 kVA		GXT MT+ 6kVA	GXT MTX+ 6kVA	GXT MT+ 10kVA
PHASE				1 phase in /	1 phase out		
CAPACITY		1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W	6000 VA / 4800 W	6000 VA / 4800 W	10000 VA / 8000 V
INPUT							
Nominal Voltag	e			230	Vac		
		110 VAC ± 3% at 50% Load					
	Low Line Loss	176 VAC ± 3% at 100% Load					
Voltage Range	Low Line Comeback	120 VAC ± 3% at 50% Load					
				186 VAC ± 3%	at 100% Load		
	High Line Loss		280 VAC ± 3%			300 VAC ± 3%	
	High Line Comeback	270 VAC ± 3% 290 VAC ± 3%					
Frequency Range		40Hz ~ 70 Hz					
Power Factor				≧ 0.99 @ Nominal \	/oltage (100% load)		
<b>OUTPUT</b> Para	ameters.						
Nominal Voltag				208/220/2	30/240VAC		
AC Voltage Regulation		208/220/230/240VAC					
		±1%					
Frequency Range (Synchronized Range)		46 Hz ~ 54 Hz or 56 Hz ~ 64 Hz					
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz					
Current Crest Ratio		3:1 (max.)					
Harmonic Distortion Transfer Time Bypass to Inverter (Line mode) Inverter to Bypass (Line mode) Waveform (Batt. Mode)		≦ 3 % THD (Linear Load)					
		≦ 7 % THD (Non-linear Load)					
		Zero					
		4 ms (Typical) Pure Sinewave					
Inbuilt Isolation	Transformer		No		No	Yes	No
BATTERY Pai			110		110	163	110
DATTENTE		121/10.411	121/10.411	121/10/11	1	214	
	Battery Type	12 V / 9 AH	12 V / 9 AH	12 V / 9 AH		NA	
Standard Run	Numbers	2					
Model	Typical Recharge Time	4 hoi	4 hours recover to 90% capacity NA				
	Charging Current (max.)		1.0 A		NA		
	Charging Voltage	27.4VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%	NA		
	Battery Type	Depending on the capacity of external batteries Depending on applications					ions
Long Run Model*	Numbers	3 6 6 16-20** (adjustable)				)	
	Charging Current	1 0A/2	2.0A/4.0A/6.0 A, 6.0A	default	6 Amps ( 0.5 Amps to 6 Amps Setteble)		
	Float Charging Voltage	41.0VDC ± 1%	82.1 VDC ±1%	82.1 VDC ±1%	$273 \text{ VDC} \pm 1\%$ (based on 20 pcs batteries)		
INDICATOR	ribat charging voltage	41,0VDC±1%	82.1 VDC ±1%	82.1 VDC ±1/6	275 VDC	E 1% (based off 20 pc	s batteries)
INDICATORS					the part	a le h	lter.
LCD Panel		UPS st	tatus, Load level, Batte	ery level, Input/Outpu	ut voltage, Discharge	e timer, and Fault cor	ditions
ALARM							
Battery Mode		Sounding every 4 seconds					
Low Battery		Sounding every second					
Overload		Sounding twice every second					
Fault		Continuously sounding					
					, ,		
PHYSICAL						No	
PHYSICAL Standard Rup	Dimension DXWXH(mm)	282 x 1/15 x 220	397 x 1/15 x 220	471 x 100 x 210			
Standard Run	Dimension, D X W X H (mm)	282 x 145 x 220	397 x 145 x 220	421 x 190 x 318			
Standard Run Mode <b>l</b>	Net Weight (kgs)	9.8	17	27.6		No	440 140
Standard Run Model Long Run	Net Weight (kgs) Dimension, D X W X H (mm)	9.8 282 x 145 x 220	17 397 x 14	27.6 45 x 220	369 x 190 x 318	No 369 x 190 x 630	442 X 190 X318
Standard Run Mode <b>l</b>	Net Weight (kgs)	9.8	17	27.6	369 x 190 x 318 21	No	442 X 190 X318 23
Standard Run Model Long Run	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs)	9.8 282 x 145 x 220	17 397 x 14	27.6 45 x 220		No 369 x 190 x 630	
Standard Run Model Long Run Model* ENVIRONME	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs)	9.8 282 x 145 x 220 4.1	17 397 x 14	27.6 45 x 220 7.4	21	No 369 x 190 x 630	23
Standard Run Model Long Run Model* ENVIRONME	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs) <b>NT</b>	9.8 282 x 145 x 220 4.1 20-90 % F	17 397 x 14 6.8	27.6 45 x 220 7.4 ndensing)	21	No 369 x 190 x 630 72	23 ndensing)
Standard Run Model Long Run Model* ENVIRONME Operation Hum Noise Level	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs) <b>NT</b> idity and Temperature.	9.8 282 x 145 x 220 4.1 20-90 % F	17 397 x 14 6.8 RH @ 0- 45°C (non-cor	27.6 45 x 220 7.4 ndensing)	21 0-95 % R Less than 55dBA @	No 369 x 190 x 630 72 H @ 0- 40°C (non-co Less than 65dBA @	23 ndensing) Less than 55dBA @
Standard Run Model Long Run Model* ENVIRONME Operation Hum Noise Level MANAGEME	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs) NT idity and Temperature.	9.8 282 x 145 x 220 4.1 20-90 % F	17 397 x 14 6.8 RH @ 0- 45°C (non-cor ss than 50dBA @ 1 Me	27.6 45 x 220 7.4 ndensing)	21 0-95 % R Less than 55dBA @ 1 Meter	No 369 x 190 x 630 72 H @ 0- 40°C (non-co Less than 65dBA @ 1 Meter	23 ndensing) Less than 55dBA @ 1 Meter
Standard Run Model Long Run Model* ENVIRONME Operation Hum Noise Level MANAGEME Smart RS-232/L	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs) NT idity and Temperature.	9.8 282 x 145 x 220 4.1 20-90 % F	17 397 x 12 6.8 RH @ 0- 45°C (non-cor ss than 50dBA @ 1 Me Supports Windows®	27.6 45 x 220 7.4 ndensing) eter 2000/2003/XP/Vista	21 0-95 % R Less than 55dBA @ 1 Meter /2008, Windows® 7,	No 369 x 190 x 630 72 H @ 0- 40°C (non-co Less than 65dBA @ 1 Meter Linux, Unix, and MA	23 ndensing) Less than 55dBA @ 1 Meter
Standard Run Model Long Run Model* ENVIRONME Operation Hum Noise Level MANAGEME Smart RS-232/L Optional SNMP	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs) NT idity and Temperature.	9.8 282 x 145 x 220 4.1 20-90 % F	17 397 x 12 6.8 RH @ 0- 45°C (non-cor ss than 50dBA @ 1 Me Supports Windows®	27.6 45 x 220 7.4 ndensing)	21 0-95 % R Less than 55dBA @ 1 Meter /2008, Windows® 7,	No 369 x 190 x 630 72 H @ 0- 40°C (non-co Less than 65dBA @ 1 Meter Linux, Unix, and MA	23 ndensing) Less than 55dBA @ 1 Meter
Standard Run Model Long Run Model* ENVIRONME Operation Hum Noise Level MANAGEME Smart RS-232/L Optional SNMP For 1/2/3 kVA	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs) <b>NT</b> idity and Temperature. <b>NT</b> ISB	9.8 282 x 145 x 220 4.1 20-90 % F	17 397 x 12 6.8 RH @ 0- 45°C (non-cor ss than 50dBA @ 1 Me Supports Windows® Power m	27.6 45 x 220 7.4 ndensing) eter 2000/2003/XP/Vista anagement from SNI	21 0-95 % R Less than 55dBA @ 1 Meter /2008, Windows® 7, MP manager and web	No 369 x 190 x 630 72 H @ 0- 40°C (non-co Less than 65dBA @ 1 Meter Linux, Unix, and MA b browser	23 ndensing) Less than 55dBA @ 1 Meter
Standard Run Model Long Run Model* ENVIRONME Operation Hum Noise Level MANAGEME Smart RS-232/L Optional SNMP For 1/2/3 kVA	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs) NT idity and Temperature.	9.8 282 x 145 x 220 4.1 20-90 % F	17 397 x 12 6.8 RH @ 0- 45°C (non-cor ss than 50dBA @ 1 Me Supports Windows® Power m	27.6 45 x 220 7.4 ndensing) eter 2000/2003/XP/Vista anagement from SNI	21 0-95 % R Less than 55dBA @ 1 Meter /2008, Windows® 7, MP manager and web	No 369 x 190 x 630 72 H @ 0- 40°C (non-co Less than 65dBA @ 1 Meter Linux, Unix, and MA b browser	23 ndensing) Less than 55dBA @ 1 Meter
Standard Run Model Long Run Model* ENVIRONME Operation Hum Noise Level MANAGEME Smart RS-232/L Optional SNMP For 1/2/3 kVA * Derate to 80%	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs) <b>NT</b> idity and Temperature. <b>NT</b> ISB	9.8 282 x 145 x 220 4.1 20-90 % F Les	17 397 x 12 6.8 RH @ 0- 45°C (non-cor ss than 50dBA @ 1 Me Supports Windows® Power m roltage is adjusted to 1	27.6 45 x 220 7.4 ndensing) eter 2000/2003/XP/Vista anagement from SNI	21 0-95 % R Less than 55dBA @ 1 Meter /2008, Windows® 7, MP manager and web	No 369 x 190 x 630 72 H @ 0- 40°C (non-co Less than 65dBA @ 1 Meter Linux, Unix, and MA b browser	23 ndensing) Less than 55dBA @ 1 Meter
Standard Run Model Long Run Model* ENVIRONME Operation Hum Noise Level MANAGEME Smart RS-232/L Optional SNMP For 1/2/3 kVA * Derate to 80% ** Product spec	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs) NT idity and Temperature. NT ISB of capacity in Frequency converte ifications are subject to change w	9.8 282 x 145 x 220 4.1 20-90 % F Les	17 397 x 12 6.8 RH @ 0- 45°C (non-cor ss than 50dBA @ 1 Me Supports Windows® Power m roltage is adjusted to 1	27.6 45 x 220 7.4 ndensing) eter 2000/2003/XP/Vista anagement from SNI	21 0-95 % R Less than 55dBA @ 1 Meter /2008, Windows® 7, MP manager and web	No 369 x 190 x 630 72 H @ 0- 40°C (non-co Less than 65dBA @ 1 Meter Linux, Unix, and MA b browser	23 ndensing) Less than 55dBA @ 1 Meter
Standard Run Model Long Run Model* ENVIRONIME Operation Hum Noise Level MANAGEME Smart RS-232/L Optional SNMP For 1/2/3 kVA * Derate to 80% ** Product spec For 6 and 10 kV.	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs) NT idity and Temperature. NT ISB of capacity in Frequency converte ifications are subject to change w	9.8 282 x 145 x 220 4.1 20-90 % F Les er mode, the output v ithout further notice	17 397 x 14 6.8 RH @ 0- 45°C (non-cor ss than 50dBA @ 1 Me Supports Windows® Power m roltage is adjusted to 1	27.6 45 x 220 7.4 ndensing) eter 2000/2003/XP/Vista anagement from SNI 100/200/208VAC and	21 0-95 % R Less than 55dBA @ 1 Meter /2008, Windows® 7, MP manager and web	No 369 x 190 x 630 72 H @ 0- 40°C (non-co Less than 65dBA @ 1 Meter Linux, Unix, and MA b browser	23 ndensing) Less than 55dBA @ 1 Meter
Standard Run Model Long Run Model* ENVIRONME Operation Hum Noise Level MANAGEME Smart RS-232/L Optional SNMP For 1/2/3 kVA * Derate to 80% * * Product spec For 6 and 10 kV,	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs) NT idity and Temperature. NT ISB of capacity in Frequency converte ifications are subject to change w A y to 60% of capacity in CVCF mod	9.8 282 x 145 x 220 4.1 20-90 % F Les er mode, the output w ithout further notice e and to 90% when th	17 397 x 12 6.8 RH @ 0- 45°C (non-cor ss than 50dBA @ 1 Me Supports Windows® Power m roltage is adjusted to 1	27.6 45 x 220 7.4 ndensing) eter 2000/2003/XP/Vista anagement from SNI 100/200/208VAC and	21 0-95 % R Less than 55dBA @ 1 Meter /2008, Windows® 7, MP manager and web	No 369 x 190 x 630 72 H @ 0- 40°C (non-co Less than 65dBA @ 1 Meter Linux, Unix, and MA b browser	23 ndensing) Less than 55dBA ( 1 Meter
Standard Run Model Long Run Model* ENVIRONME Operation Hum Noise Level MANAGEME Smart RS-232/L Optional SNMP For 1/2/3 kVA * Derate to 80% * Product spec For 6 and 10 kV. * Derate capacit * When using i	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs) NT idity and Temperature. NT iSB of capacity in Frequency converte ifications are subject to change w A y to 60% of capacity in CVCF mod nternal batteries from 16-19, the	9.8 282 x 145 x 220 4.1 20-90 % F Les er mode, the output w ithout further notice e and to 90% when th unit will de-rate accor	17 397 x 14 6.8 RH @ 0- 45°C (non-cor ss than 50dBA @ 1 Me Supports Windows® Power m roltage is adjusted to 1 ne output voltage is ad rding to below formul	27.6 45 x 220 7.4 ndensing) eter 2000/2003/XP/Vista anagement from SNI 100/200/208VAC and 100/200/208VAC and ijusted to 208VAC. a: P=P <sub>rating</sub> x N/20	21 0-95 % R Less than 55dBA @ 1 Meter /2008, Windows® 7, MP manager and web	No 369 x 190 x 630 72 H @ 0- 40°C (non-co Less than 65dBA @ 1 Meter Linux, Unix, and MA browser rature during 45°C to	23 ndensing) Less than 55dBA ( 1 Meter
Standard Run Model Long Run Model* ENVIRONIME Operation Hum Noise Level MANAGEME Smart RS-232/L Optional SNMP For 1/2/3 kVA * Derate to 80% * Product spect For 6 and 10 kV. * Derate capacit * When using i * * If the UPS is	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs) NT idity and Temperature. NT ISB of capacity in Frequency converte ifications are subject to change w A y to 60% of capacity in CVCF mod	9.8 282 x 145 x 220 4.1 20-90 % F Les er mode, the output ver ithout further notice e and to 90% when th unit will de-rate accor the altitude is above to	17 397 x 14 6.8 RH @ 0- 45°C (non-cor ss than 50dBA @ 1 Me Supports Windows® Power m roltage is adjusted to 1 ne output voltage is ad rding to below formul	27.6 45 x 220 7.4 ndensing) eter 2000/2003/XP/Vista anagement from SNI 100/200/208VAC and 100/200/208VAC and ijusted to 208VAC. a: P=P <sub>rating</sub> x N/20	21 0-95 % R Less than 55dBA @ 1 Meter /2008, Windows® 7, MP manager and web	No 369 x 190 x 630 72 H @ 0- 40°C (non-co Less than 65dBA @ 1 Meter Linux, Unix, and MA browser rature during 45°C to	23 ndensing) Less than 55dBA ( 1 Meter

Learn more at **VertivCo.com** marketing.india@vertivco.com 1-800-2096070 (Toll free)