## **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.









MODEL			t GXT MT Serie					
		GXT MT+ CX 1 kVA	GXT MT+ CX 2 kVA	GXT MT+ CX 3 kVA		GXT MTX+ 6kVA	GXT MT+ 10kVA	
PHASE				1 phase in /				
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				
	Low Line Loss	110 VAC ± 3% at 50% Load						
	LOW LINE LOSS			176 VAC ± 3%				
Voltage Range	Low Line Comeback			120 VAC ± 3% 186 VAC ± 3%	% at 50% Load			
3 3	High Line Loss		280 VAC ± 3%	100 VAC ± 3/6	at 100% Load	300 VAC ± 3%		
	High Line Comeback	270 VAC±3%			290 VAC ± 3%			
		40Hz ~ 70 Hz						
requency Rang	je							
Power Factor				≧ 0.99 @ Nominal \	rorrage (100% load)			
OUTPUT Par		I						
Nominal Voltag					30/240VAC			
AC Voltage Reg		± 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 R	atio			3:1 (r	max.)			
		≦ 3 % THD (Linear Load)						
Harmonic Disto	rtion				Non-linear Load)			
TransfT'	Bypass to Inverter (Line mode)			Ze	го			
Transfer Time	Inverter to Bypass (Line mode)	4 ms (Typical)						
Naveform (Bati	t. Mode)	Pure Sinewave						
EFFICIENCY on A	AC to AC mode@ 100% load.	88%	88%	90%	91%	84%	90%	
nbuilt Isolation	Transformer		No		No	Yes	No	
BATTERY Pai	rameters.							
	Battery Type	12 V / 9 AH	12 V / 9 AH	12 V / 9 AH		NA		
	Numbers	2	4	6	NA NA			
Standard Run								
Model	Typical Recharge Time	4 hours recover to 90% capacity			NA NA			
	Charging Current (max.)		1.0 A NA					
	Charging Voltage	27.4VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%	NA NA			
Long Run Model*	Battery Type		n the capacity of exte	rnal batteries	Depending on applications			
	Numbers	3	6	6	16-20** (adjustable)			
	Charging Current	1.0A/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 VDC :	± 1% (based on 20 pc	s batteries)	
INDICATORS								
LCD Panel		UPS st	atus, Load level, Batte	ery level, Input/Outpu	ut voltage, Discharge	timer, and Fault con	ditions	
ALARM								
				Sounding eve	ery 4 seconds			
Battery Mode	*		Sounding every second					
Battery Mode				Sounding e	very second			
Battery Mode Low Battery								
Battery Mode Low Battery Overload				Sounding twice	e every second			
Battery Mode Low Battery Overload Fault					e every second			
Battery Mode Low Battery Diverload Fault PHYSICAL	Dimension DYWY H (mm)	282 v 145 v 220	397 y 1.45 v 220	Sounding twice Continuous	e every second	No		
Battery Mode .ow Battery Overload Fault PHYSICAL Standard Run	Dimension, D X W X H (mm)	282 x 145 x 220	397 x 145 x 220	Sounding twice Continuous 421 x 190 x 318	e every second	No		
Battery Mode Low Battery Dverload Fault PHYSICAL Standard Run Model	Net Weight (kgs)	9.8	17	Sounding twice Continuous  421 x 190 x 318  27.6	e every second ly sounding	No	442.4.100.4.2.4	
Battery Mode Low Battery Diverload Fault PHYSICAL 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	Sounding twice  Continuous  421 x 190 x 318  27.6  45 x 220	e every second ly sounding 369 x 190 x 318	No 369 x 190 x 630		
Sattery Mode .ow Battery Overload Fault PHYSICAL Standard Run Model Long Run Model*	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs)	9.8	17	Sounding twice Continuous  421 x 190 x 318  27.6	e every second ly sounding	No	442 X 190 X318 23	
Battery Mode Low Battery Dverload Fault PHYSICAL 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 6.8	Sounding twice  Continuous  421 x 190 x 318  27.6  45 x 220  7.4	e every second ly sounding 369 x 190 x 318	No 369 x 190 x 630 72	23	
Sattery Mode Low Battery Dverload Sault PHYSICAL 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	Sounding twice  Continuous  421 x 190 x 318  27.6  45 x 220  7.4	e every second ly sounding 369 x 190 x 318	No 369 x 190 x 630	23	
Sattery Mode  .ow Battery  Dverload  Fault  PHYSICAL  Standard Run  Model  Long Run  Model*  ENVIRONME  Operation Hum	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 6.8 RH @ 0- 45°C (non-cor	Sounding twice  Continuous  421 x 190 x 318  27.6  45 x 220  7.4  Indensing)	e every second ly sounding 369 x 190 x 318	No 369 x 190 x 630 72 H @ 0- 40°C (non-col Less than 65dBA @	ndensing) Less than 55dBA @	
Sattery Mode  .ow Battery  Dverload  Fault  PHYSICAL  Standard Run  Model  Long Run  Model*  ENVIRONME  Operation Hum	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 6.8	Sounding twice  Continuous  421 x 190 x 318  27.6  45 x 220  7.4  Indensing)	e every second ly sounding 369 x 190 x 318 21	No 369 x 190 x 630 72 H @ 0- 40°C (non-coi	23 ndensing)	
Sattery Mode Low Battery Dverload Fault PHYSICAL Standard Run Model Long Run Model* ENVIRONME Deparation Hum Noise Level	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	17 397 x 14 6.8 RH @ 0- 45°C (non-cor	Sounding twice  Continuous  421 x 190 x 318  27.6  45 x 220  7.4  Indensing)	e every second ly sounding 369 x 190 x 318 21 0-95 % R Less than 55dBA @	No 369 x 190 x 630 72 H @ 0- 40°C (non-col Less than 65dBA @	23 ndensing) Less than 55dBA @	
Sattery Mode OW Battery Overload Fault PHYSICAL Standard Run Model Long Run Model* ENVIRONME Operation Hum Noise Level	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 % I	17 397 x 14 6.8 RH @ 0- 45°C (non-cor	Sounding twice  Continuous  421 x 190 x 318  27.6  45 x 220  7.4  Indensing)	e every second ly sounding 369 x 190 x 318 21 0-95 % R Less than 55dBA @ 1 Meter	No 369 x 190 x 630 72 H @ 0- 40°C (non-coi Less than 65dBA @ 1 Meter	23 ndensing) Less than 55dBA ( 1 Meter	
Sattery Mode Low Battery Dverload Fault PHYSICAL Standard Run Model Long Run Model* ENVIRONME Deration Hum Noise Level MANAGEME Emart 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 % I	17 397 x 14 6.8 RH @ 0-45°C (non-cors than 50dBA @ 1 Me	Sounding twice  Continuous  421 x 190 x 318  27.6  45 x 220  7.4  Indensing)	e every second ly sounding 369 x 190 x 318 21 0-95 % R Less than 55dBA @ 1 Meter	No 369 x 190 x 630 72 H @ 0-40°C (non-cor Less than 65dBA @ 1 Meter  Linux, Unix, and MAG	23 ndensing) Less than 55dBA @ 1 Meter	
Sattery Mode Low Battery Dverload Fault PHYSICAL Standard Run Model Long Run Model* ENVIRONME Dperation Hum Noise Level MANAGEME Emart RS-232/L Dptional 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 % I	17 397 x 14 6.8 RH @ 0-45°C (non-cors than 50dBA @ 1 Me	Sounding twice Continuous  421 x 190 x 318 27.6 45 x 220 7.4  andensing)  etter  2000/2003/XP/Vista	e every second ly sounding 369 x 190 x 318 21 0-95 % R Less than 55dBA @ 1 Meter	No 369 x 190 x 630 72 H @ 0-40°C (non-cor Less than 65dBA @ 1 Meter  Linux, Unix, and MAG	23 ndensing) Less than 55dBA ( 1 Meter	
Battery Mode Low Battery Dverload Fault PHYSICAL Standard Run Model Long Run Model* ENVIRONME Deration Hum Noise Level MANAGEME Emart RS-232/L Optional SNMP For 1/2/3 kVA	Net Weight (kgs)  Dimension, D X W X H (mm)  Net Weight (kgs)  INT  idity and Temperature.  NT  USB	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 Supports Windows® Power m	Sounding twice  Continuous  421 x 190 x 318  27.6  45 x 220  7.4  Indensing)  Setter  2000/2003/XP/Vista, anagement from SNR	e every second ly sounding  369 x 190 x 318  21  0-95 % R  Less than 55dBA @ 1 Meter  (2008, Windows® 7,	No 369 x 190 x 630 72 H @ 0-40°C (non-cor Less than 65dBA @ 1 Meter  Linux, Unix, and MAG b browser	23 ndensing) Less than 55dBA ( 1 Meter	
Sattery Mode Low Battery Dverload Fault PHYSICAL Standard Run Model Long Run Model* ENVIRONME Departion Hum Noise Level MANAGEME Smart RS-232/L Dptional SNMP For 1/2/3 kVA * Derate to 80%	Net Weight (kgs)  Dimension, D X W X H (mm)  Net Weight (kgs)  INT  idity and Temperature.  NT  USB	9.8 282 x 145 x 220 4.1 20-90 % f Le:	17 397 x 14 6.8 RH @ 0-45°C (non-cor ss than 50dBA @ 1 Me Supports Windows® Power m	Sounding twice  Continuous  421 x 190 x 318  27.6  45 x 220  7.4  Indensing)  Setter  2000/2003/XP/Vista, anagement from SNR	e every second ly sounding  369 x 190 x 318  21  0-95 % R  Less than 55dBA @ 1 Meter  (2008, Windows® 7,	No 369 x 190 x 630 72 H @ 0-40°C (non-cor Less than 65dBA @ 1 Meter  Linux, Unix, and MAG b browser	23 ndensing) Less than 55dBA ( 1 Meter	
Battery Mode Low Battery Overload Fault PHYSICAL 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 spece	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs)  INT idity and Temperature.  NT USB Sof capacity in Frequency converted if ications are subject to change weight in the content of the conten	9.8 282 x 145 x 220 4.1 20-90 % f Le:	17 397 x 14 6.8 RH @ 0-45°C (non-cor ss than 50dBA @ 1 Me Supports Windows® Power m	Sounding twice  Continuous  421 x 190 x 318  27.6  45 x 220  7.4  Indensing)  Setter  2000/2003/XP/Vista, anagement from SNR	e every second ly sounding  369 x 190 x 318  21  0-95 % R  Less than 55dBA @ 1 Meter  (2008, Windows® 7,	No 369 x 190 x 630 72 H @ 0-40°C (non-cor Less than 65dBA @ 1 Meter  Linux, Unix, and MAG b browser	23 ndensing) Less than 55dBA ( 1 Meter	
Sattery Mode Low Battery Dverload Fault PHYSICAL Standard Run Model Long Run Model* ENVIRONME Departion Hum Noise Level MANAGEME Smart RS-232/L Deptional 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) INT idity and Temperature.  NT USB of capacity in Frequency converted ifications are subject to change with the control of the	9.8 282 x 145 x 220 4.1 20-90 % f Les	17 397 x 14 6.8  RH @ 0- 45°C (non-cor ss than 50dBA @ 1 Me  Supports Windows® Power m  oltage is adjusted to 1	Sounding twice Continuous  421 x 190 x 318 27.6  45 x 220 7.4  Indensing)  Ster  2000/2003/XP/Vistal anagement from SNR	e every second ly sounding  369 x 190 x 318  21  0-95 % R  Less than 55dBA @ 1 Meter  (2008, Windows® 7,	No 369 x 190 x 630 72 H @ 0-40°C (non-cor Less than 65dBA @ 1 Meter  Linux, Unix, and MAG b browser	23 ndensing) Less than 55dBA ( 1 Meter	
Sattery Mode ow Battery Dverload fault PHYSICAL Standard Run Model Long Run Model* ENVIRONME Departion Hum Noise Level WANAGEME Gmart RS-232/L Deptional 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)  INT idity and Temperature.  NT USB Sof capacity in Frequency converte ifications are subject to change with the control of th	9.8 282 x 145 x 220 4.1 20-90 % f Le: er mode, the output v ithout further notice	17 397 x 14 6.8 RH @ 0-45°C (non-cores than 50dBA @ 1 Me Supports Windows® Power m oltage is adjusted to 1	Sounding twice Continuous  421 x 190 x 318 27.6 45 x 220 7.4  Indensing)  Ster  2000/2003/XP/Vistal anagement from SNR  100/200/208VAC ance  Ijusted to 208VAC.	e every second ly sounding  369 x 190 x 318  21  0-95 % R  Less than 55dBA @ 1 Meter  (2008, Windows® 7,	No 369 x 190 x 630 72 H @ 0-40°C (non-cor Less than 65dBA @ 1 Meter  Linux, Unix, and MAG b browser	23 ndensing) Less than 55dBA ( 1 Meter	
Sattery Mode ow Battery Overload fault PHYSICAL Standard Run Model Long Run Model* ENVIRONME Operation Hum Noise Level WANAGEME 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  USB  of capacity in Frequency converte cifications are subject to change was a cy to 60% of capacity in CVCF modinternal batteries from 16-19, the	9.8 282 x 145 x 220 4.1  20-90 % F  Les  er mode, the output v ithout further notice e and to 90% when the unit will de-rate according to the content of the	17 397 x 14 6.8 RH @ 0-45°C (non-cor ss than 50dBA @ 1 Me Supports Windows® Power m oltage is adjusted to 1 e output voltage is ad rding to below formul	Sounding twice Continuous  421 x 190 x 318 27.6 45 x 220 7.4  andensing)  ter  2000/2003/XP/Vista, anagement from SNI  00/200/208VAC and  ljusted to 208VAC. a: P=P <sub>rating</sub> x N/20	e every second ly sounding  369 x 190 x 318  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-col Less than 65dBA @ 1 Meter  Linux, Unix, and MAC b browser  rature during 45°C to	23 ndensing) Less than 55dBA ( 1 Meter	
Attery Mode ow Battery Dverload ault PHYSICAL Standard Run Model Long Run Model* ENVIRONME Departion Hum loise Level WANAGEME mart RS-232/L Deptional SNMP or 1/2/3 kVA Derate to 80% * Product spec or 6 and 10 kV Derate capacit *When using i	Net Weight (kgs) Dimension, D X W X H (mm) Net Weight (kgs)  INT idity and Temperature.  NT USB Sof capacity in Frequency converte ifications are subject to change with the control of th	9.8 282 x 145 x 220 4.1  20-90 % F  Les  er mode, the output v ithout further notice e and to 90% when the unit will de-rate according to the content of the	17 397 x 14 6.8 RH @ 0-45°C (non-cor ss than 50dBA @ 1 Me Supports Windows® Power m oltage is adjusted to 1 e output voltage is ad rding to below formul	Sounding twice Continuous  421 x 190 x 318 27.6 45 x 220 7.4  andensing)  ter  2000/2003/XP/Vista, anagement from SNI  00/200/208VAC and  ljusted to 208VAC. a: P=P <sub>rating</sub> x N/20	e every second ly sounding  369 x 190 x 318  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-col Less than 65dBA @ 1 Meter  Linux, Unix, and MAC b browser  rature during 45°C to	23 ndensing) Less than 55dBA ( 1 Meter	