

💙 VERTIV

Liebert ITON Series

The Vertiv-Emerson Liebert ® GXT MT+ CX 1–3 kVA SB Inbuilt Battery UPS Compact, Efficient & Reliable Power For Mission-Critical Applications.

The Liebert® GXT MT+ CX UPS facilitates power factor correction, low THDi, and advanced frequency regulation in a compact footprint.

- ➤ IGBT-based Rectifier
- > True on-line double-conversion efficiency (up to 90%) DSP Control Technology for high Performance
- > Active Input Power Factor Correction 0.99; 0.9 OutputPower Factor
- > Ultra-wide Input Voltage window: 280VAC; works well inharsh conditions and suitable for very poor quality power grid
- ➤ Generator-compatible with a wide Input Frequency range(40Hz-70Hz)



Applications

- ✓ Data Network: Mid range Servers (Windows and Linux), Wi-Fi Applications & Data networks
- ✓ Small Data Center Rooms
- ✓ Voice Networks: Cellular Sites, Voice Over IP (VOIP), Very small Aperture Terminals (VSAT) PBX And ITenabled PBX Automation industries
- ✓ Process Automation Equipment: Programmable
- ✓ Logic Controllers (PLS) and Cash Machines (ATM)

Features

- ➢ Smart RS232/USB interface forpower management
- > Excellent microprocessor controlguarantees high reliabil
- ➢ AVR boost and voltage stabilization
- > Auto restart while AC is recovering
- > Simulated sine wave
- > Auto charging at Off-mode
- Cold start function
- Generator compatible

MODEL		GXT MT + CX 1 kVA	GXT MT + CX 2 kVA	GXT MT + CX 3 kVA		
PHASE			1 phase in / 1 phase out			
CAPACITY		1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W		
INPUT		1000 (11/ 000 11		0000 111/ 2100 11		
Nominal Voltage			230 Vac			
rionnia vortage			110 VAC ± 3% at 50% Load			
	Low Line Loss		176 VAC ± 3% at 100% Load			
		120 VAC ± 3% at 100% Load				
Voltage Range	Low Line Comeback	120 VAC ± 3% at 50% Load 186 VAC ± 3% at 100% Load				
vonage Range	High Line Loss	280 VAC ± 3%				
	High Line Comeback	270 VAC ± 3%				
Frequency Range	0		40 Hz ~ 70 Hz			
Power Factor			≥ 0.99 @ 100% load			
OUTPUT			2 0.77 @ 100 /0 load			
			208/220/230/240VAC			
Nominal Voltage			±1%			
AC Voltage Regulation		/	$\frac{1}{2}$ 6Hz ~ 54 Hz or 56Hz ~ 64 Hz			
Frequency Range (Synchronized Range)		46Hz ~ 54 Hz or 56Hz ~ 64 Hz 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz				
Frequency Range (Batt. Mode)		5				
Current Crest Ratio Harmonic Distortion		< 2.04 THD (Linear Load) <	3:1 (max.) ≤ 3 % THD (Linear Load), ≤ 7 % THD (Non-linear Load)			
		$\leq 3\%$ THD (Linear Load), \leq	Zero	l)		
Transfer Time	Bypass to Inverter (Line mde)		4 ms (Typical)			
Inverter to Bypass (Line mode)			Pure Sinewave			
Waveform (Batt. Mode)		88%	88%	90%		
EFFICIENCY on AC to AC mode@ 100% load. Inbuilt Isolation Transformer		88%	No	90%		
BATTERY	Talisionnei		NO			
BAITERY	Detterry True e	12V/9AH	12V/9AH	12V/9AH		
	Battery Type Numbers	2	4.	<u>127/ 9 Ап</u> б		
Chandered M 1 1			1	0		
		4	hours recover to 000/ conceptu			
StandardModel	Typical Recharge Time		hours recover to 90% capacity			
StandardModel	Charging Current (max.)	1	1.0 A	02.1 VDC + 10/		
standardModel	Charging Current (max.) Charging Voltage		1.0 A 54.7 VDC ±1%	82.1 VDC ±1%		
	Charging Current (max.) Charging Voltage Battery Type	27.4VDC ± 1%	.0 A 54.7 VDC ±1% Depending on the capacity of ex	xternal batteries		
StandardModel	Charging Current (max.) Charging Voltage Battery Type Numbers	1 27.4VDC ± 1% 3	LO A 54.7 VDC ±1% Depending on the capacity of ex 6			
	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current	27.4VDC ± 1%	1.0 A 54.7 VDC ±1% Depending on the capacity of ex 6 0A/2.0A/4.00.0A, 6.0A default	xternal batteries 6		
Long Run Model	Charging Current (max.) Charging Voltage Battery Type Numbers	1 27.4VDC ± 1% 3	LO A 54.7 VDC ±1% Depending on the capacity of ex 6	xternal batteries		
Long Run Model INDICATORS	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1%	.0 A 54.7 VDC ±1% Depending on the capacity of ex 6 0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1%	xternal batteries 6 "82.1 VDC *1%		
Long Run Model INDICATORS LCD Panel	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current	27.4VDC ± 1%	.0 A 54.7 VDC ±1% Depending on the capacity of ex 6 0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1%	xternal batteries 6 "82.1 VDC *1%		
Long Run Model INDICATORS LCD Panel ALARM	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1%	1.0 A 54.7 VDC ±1% Depending on the capacity of ex 6 .0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1%	xternal batteries 6 "82.1 VDC *1%		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1%	.0 A 54.7 VDC ±1% Depending on the capacity of ex- 6 0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% , Input/Output voltage, Discharge ti Sounding every 4 seconds	xternal batteries 6 "82.1 VDC *1%		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1% UPS status, Load level, Battery level	.0 A 54.7 VDC ±1% Depending on the capacity of ex- 6 0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% , Input/Output voltage, Discharge ti Sounding every 4 seconds Sounding every second	xternal batteries 6 "82.1 VDC *1%		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1% UPS status, Load level, Battery level	.0 A 54.7 VDC ±1% Depending on the capacity of ex 6 0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% , Input/Output voltage, Discharge ti Sounding every 4 seconds Sounding every 4 seconds Sounding twice every second	xternal batteries 6 "82.1 VDC *1%		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1% UPS status, Load level, Battery level	.0 A 54.7 VDC ±1% Depending on the capacity of ex- 6 0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% , Input/Output voltage, Discharge ti Sounding every 4 seconds Sounding every second	xternal batteries 6 "82.1 VDC *1%		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current Float Charging Voltage	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1% UPS status, Load level, Battery level	.0 A 54.7 VDC ±1% Depending on the capacity of ex- 6 .0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% . Input/Output voltage, Discharge ti Sounding every 4 seconds Sounding every 4 seconds Sounding twice every second Countinously sounding	xternal batteries 6 "82.1 VDC *1% mer, and Fault conditions		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Stand Model	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current Float Charging Voltage Dimension, D x W x H (mm)	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1% UPS status, Load level, Battery level 282 x 145 x 220	.0 A 54.7 VDC ±1% Depending on the capacity of ex- 6 0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% . Input/Output voltage, Discharge ti Sounding every 4 seconds Sounding every 4 seconds Sounding twice every second Countinously sounding 397 x145 x220	xternal batteries 6 "82.1 VDC *1% mer, and Fault conditions 421 x 190 x 318		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Stand Model Long Run	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current Float Charging Voltage Dimension, D x W x H (mm) Net Weight (kgs)	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1% UPS status, Load level, Battery level 282 x 145 x 220 9.8	.0 A 54.7 VDC ±1% Depending on the capacity of ex- 6 0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% . Input/Output voltage, Discharge ti Sounding every 4 seconds Sounding every 4 seconds Sounding twice every second Countinously sounding 397 x145 x220 17	xternal batteries 6 "82.1 VDC *1% mer, and Fault conditions 421 x 190 x 318 27.6		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Stand Model	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current Float Charging Voltage Dimension, D x W x H (mm) Net Weight (kgs) Dimension, O x W x H (mm)	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1% UPS status, Load level, Battery level 282 x 145 x 220 9.8 282 x 145 x 220	.0 A 54.7 VDC ±1% Depending on the capacity of ex 6 0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% Input/Output voltage, Discharge ti Sounding every 4 seconds Sounding every second Sounding twice every second Countinously sounding 397 x145 x220 17 397 x14	xternal batteries 6 "82.1 VDC *1% mer, and Fault conditions 421 x 190 x 318 27.6 t5 x220		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Stand Model Long Run Model*	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current Float Charging Voltage Dimension, D x W x H (mm) Net Weight (kgs) Dimension, O x W x H (mm)	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1% UPS status, Load level, Battery level 282 x 145 x 220 9.8	.0 A 54.7 VDC ±1% Depending on the capacity of ex- 6 0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% . Input/Output voltage, Discharge ti Sounding every 4 seconds Sounding every 4 seconds Sounding twice every second Countinously sounding 397 x145 x220 17	xternal batteries 6 "82.1 VDC *1% mer, and Fault conditions 421 x 190 x 318 27.6		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Stand Model Long Run Model* ENVIRONMEN	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current Float Charging Voltage Dimension, D x W x H (mm) Net Weight (kgs) Dimension, O x W x H (mm) Net Weight (kgs) T	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1% UPS status, Load level, Battery level 282 x 145 x 220 9.8 282 x 145 x 220 4.1	.0 A 54.7 VDC ±1% Depending on the capacity of ex 6 .0 A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% .1.0 utput/Output voltage, Discharge ti Sounding every 4 seconds Sounding every second Sounding twice every second Countinously sounding 397 x145 x220 17 397 x145	xternal batteries 6 "82.1 VDC *1% mer, and Fault conditions 421 x 190 x 318 27.6 5 x220 7.4		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Stand Model Long Run Model* ENVIRONMEN Operation Humid	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current Float Charging Voltage Dimension, D x W x H (mm) Net Weight (kgs) Dimension, O x W x H (mm)	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1% UPS status, Load level, Battery level 282 x 145 x 220 9.8 282 x 145 x 220 4.1	.0 A 54.7 VDC ±1% Depending on the capacity of ex- 6 0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% . Input/Output voltage, Discharge ti Sounding every 4 seconds Sounding every 4 seconds Sounding twice every second Countinously sounding 397 x145 x220 17 397 x14 6.8 % RH @ 0- 45°C (non-condensi	xternal batteries 6 "82.1 VDC *1% mer, and Fault conditions 421 x 190 x 318 27.6 5 x220 7.4		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Stand Model Long Run Model* ENVIRONMEN Operation Humid Noise Level	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current Float Charging Voltage Dimension, D x W x H (mm) Net Weight (kgs) Dimension, O x W x H (mm) Net Weight (kgs) T ity and Temperature	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1% UPS status, Load level, Battery level 282 x 145 x 220 9.8 282 x 145 x 220 4.1	.0 A 54.7 VDC ±1% Depending on the capacity of ex 6 .0 A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% .1.0 utput/Output voltage, Discharge ti Sounding every 4 seconds Sounding every second Sounding twice every second Countinously sounding 397 x145 x220 17 397 x145	xternal batteries 6 "82.1 VDC *1% mer, and Fault conditions 421 x 190 x 318 27.6 5 x220 7.4		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Stand Model Long Run Model* ENVIRONMEN Operation Humid Noise Level MANAGEMEN	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current Float Charging Voltage Dimension, D x W x H (mm) Net Weight (kgs) Dimension, O x W x H (mm) Net Weight (kgs) T ity and Temperature T	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1% UPS status, Load level, Battery level 282 x 145 x 220 9.8 282 x 145 x 220 4.1 20-90	.0 A 54.7 VDC ±1% Depending on the capacity of ex- 0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% 	xternal batteries 6 "82.1 VDC *1% mer, and Fault conditions 421 x 190 x 318 27.6 15 x220 7.4 ng)		
Long Run Model INDICATORS LCD Panel ALARM Battery Mode Low Battery Overload Fault PHYSICAL Stand Model Long Run Model* ENVIRONMEN Operation Humid Noise Level	Charging Current (max.) Charging Voltage Battery Type Numbers Charging Current Float Charging Voltage Dimension, D x W x H (mm) Net Weight (kgs) Dimension, O x W x H (mm) Net Weight (kgs) T ity and Temperature T	1 27.4VDC ± 1% 3 1 41.0 VDC ± 1% UPS status, Load level, Battery level 282 x 145 x 220 9.8 282 x 145 x 220 4.1 20-90 Supports Windows® 2000/2	.0 A 54.7 VDC ±1% Depending on the capacity of ex- 6 0A/2.0A/4.00.0A, 6.0A default 82.1 VDC ±1% . Input/Output voltage, Discharge ti Sounding every 4 seconds Sounding every 4 seconds Sounding twice every second Countinously sounding 397 x145 x220 17 397 x14 6.8 % RH @ 0- 45°C (non-condensi	xternal batteries 6 "82.1 VDC *1% mer, and Fault conditions 421 x 190 x 318 27.6 5 x220 7.4 ng) ® 7, Linux, Unix, and MAC		

GXT MT+ CX 16A 1000VA-3000VA

Model		GXT MT+ CX 16A	GXT MT+ CX 16A	GXT MT+ CX 16A		
PHASE		Single phase with ground				
CAPACITY*		1000VA/ 800W	2000 VA / 1600 W	3000 VA / 2400 W		
INPUT Paran	neters					
Nominal Voltage		200/208/220/230/240VAC				
Input Voltage Range		110-280 VAC (Based on load at 50%)				
Frequency Range		40Hz ' 70 Hz				
Power Factor		≥0.99 @ Nominal Voltage (100% load)				
OUTPUT Param	neters					
Output Voltage		200/208/220/230/240VAC				
Voltage Regulation		±1%				
Frequency Range (Synchronized Range)		47— 53 Hz or 57— 63 Hz			
Frequency Range (Batt. Mode)		50 Hz or 60Hz ± 0.1 Hz				
Current Crest Ratio		3:01				
Harmonic Distortion		:3 % THD (Linear Load)				
	AC to DC	Zero				
Transfer Time	Inverter to Bypass	4 ms (Typical)				
	Waveform (Batt. Mode)	Pure Sinewave				
EFFICIENCY						
To AC Mode		90%	92%	92%		
To Battery Mode		85%	87%	88%		
BATTERY Para	meters					
	Battery Type	Depending on the capacity of external batteries				
Long-run	Numbers	3	6	6		
Model*	Charging Current (max.)	2.0A/4.0A/6.0 A/8.0/10.0/12.0/14.0/16.0A by default				
	Charging Voltage	41.0VDC ± 1%	82.1 VDC ±1%	82.1 VDC ±1%		
INDICATORS						
LCD		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators				
ALARM						
Battery Mode		Sounding every 4 seconds				
Low Battery		Sounding every second				
Overload		Sounding twice every second				
Fault		Continously sounding				
PHYSICAL						
Long-run Model*	Dimension, DxWxH (mm)	282 x 145 x 333 397 x 145 x 333				
	Net Weight (kgs)	5.6	9	9.8		
ENVIRONMEN	Т					
Humidity		0-95 % RH @ 0- 50°C (non-condensing)				
Noise Level		Less than 45dBA @ 1 Meter				
MANAGEMENT	[
Smart RS-232/USB		Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC				
Optional SNMP		Power management from SNMP manager and web browser				



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