

Power Protection for
Business-Critical Continuity

Liebert GXT-RT 1-3kVA UPS

Extended Runtime Ready





Trouble is Coming Down The Line And You Must Be Prepared

- Every operation in your business depends upon the instant, around-the clock availability of computers, servers and other electronic systems. If they aren't working, neither is your company.
- Every piece of this equipment your company possesses is subject to the whims of the electricity that powers it.
- The first step in taking control of this situation is to understand the threats to your system reliability — and exactly what you can do about them.

The Liebert GXT-RT True Online Double Conversion UPS With Extended Runtime Capabilities

- Liebert GXT-RT features a comprehensive specification, satisfies international safety criteria and electromagnetic compatibility standards, and offers intelligent monitoring and network management functions.
- Liebert GXT-RT fully meets your requirements for high reliability and high availability of the AC power supply.
- Liebert GXT-RT is both Rack Mount And Tower Mount compatible, thereby facilitating flexible on-site configuration.
- Liebert GXT-RT long run model (L) deploys adaptive battery architecture to maximise your valuable rack space utilisation. Application specific battery configuration and placement ensures optimal performance.

*NOTE: Liebert GXT-RT standard model is provided complete with internal battery / battery module.
Liebert GXTL-RT (long back up model) application specific battery and cabinet available through your local Emerson Network Power representative.*



Applications

- Small Size Data Center
- Telecommunication, VoIP
- Small Office Network
- Data Warehouses
- Medical Diagnostics
- Process Automation Equipments

Features

- Standard and Extended Runtime options available
- Flexible (Site Specific) Battery Configuration
- Rack / tower Adaptability
- DSP controlled Online double conversion
- Generator Compatible
- “Mute” design
- Class B Electromagnetic interference (EMC) compatible
- Ultra wide input voltage range
- High capacity Battery Charger for GXTL
- High input power factor & low THDi

Sourcing the Liebert GXT-RT



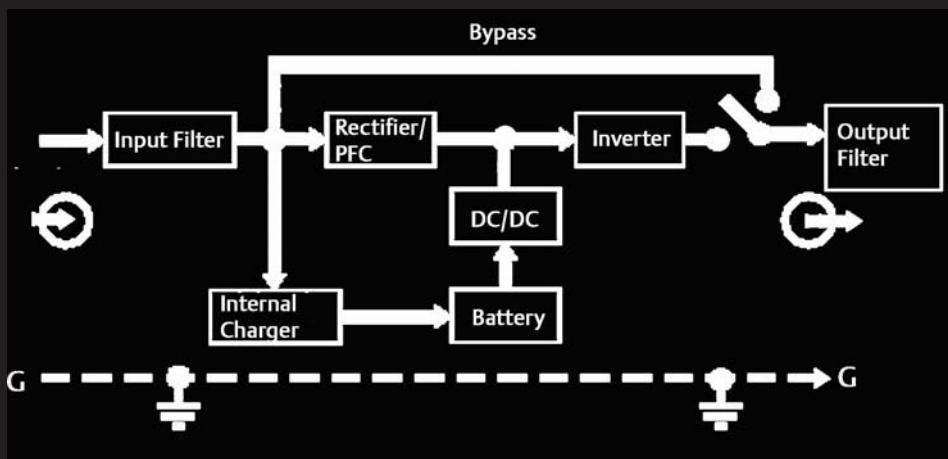
Available from all Uptime Partners



Email marketing@emersonnetwork-ap.com for your nearest Uptime Partner

Liebert GXT - RT

True Online Double Conversion

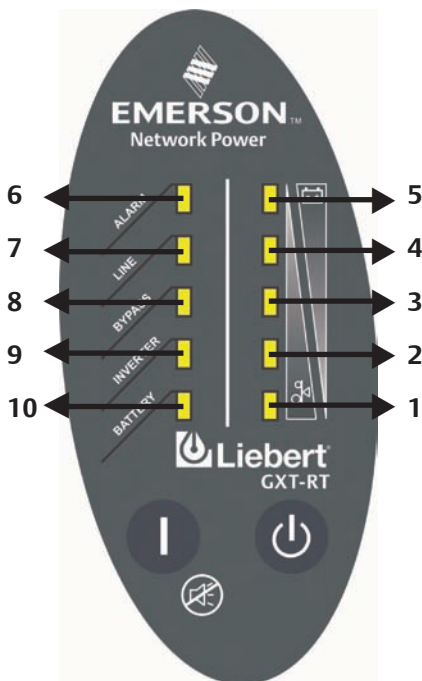


Excellent performance

- True Online Double Conversion UPS with Zero transfer time. The online design ensures no output interruption upon mains failure, ensuring maximum uptime.
- Ultra wide input voltage range: 120~300V minimizes the battery discharge frequency, protects the battery capacity, and offers a super output overload capability. The system can maintain the online operation for 5 minutes even at the 125% overload, and 200% for 10 Seconds
- Ultra low noise: Liebert GXT-RT deploys a low noise design, and is applicable to general office, telecommunications and medical diagnostics environments.
- High Capacity battery charging capability on the long back-up model: Liebert GXTL-RT is equipped with a 7Amp (1kVA unit) and an 8Amp (2 and 3kVA unit) charger to ensure fast battery recovery as well as enabling extended battery autonomy.
- Electro Magnetic Conduction (EMC) compliant to Class B delivers strong immunity protection levels.
- Liebert GXT-RT maintains the lowest level of Input current THD and highest possible Input power factor (up to 0.99), making it an energy efficient and conservative choice

High reliability Design

- Latest, state of the art DSP allows for complex real time algorithms to be performed in milliseconds yielding functional speed with accuracy. The digital controller significantly reduces the discrete hardware count which in turn leads to higher levels of reliability.
- Built-in automatic bypass assures power continuity during maintenance and system fault.



- 1-5: Load capacity/battery remaining capacity display
- 6: Alarm indicator
- 7: Mains supply status indicator
- 8: Bypass status indicator
- 9: Inverter status indicator
- 10: Battery working status

- Input level-D Surge Suppressor effectively protects the load against potentially harmful surge activity.
- The inverter uses advance current limiting technology to protect the system against potential output short circuit.

Flexible Configuration

- Rack-mount and tower-mount ready design enables the UPS to be installed both on a desk or in a 19-inch rack, making it adaptable to the application environment.
- Extended Run Time ready facilitated through a simple process of increasing battery capacity
- Multiple AC output interfaces via IEC standard socket

Convenient maintenance

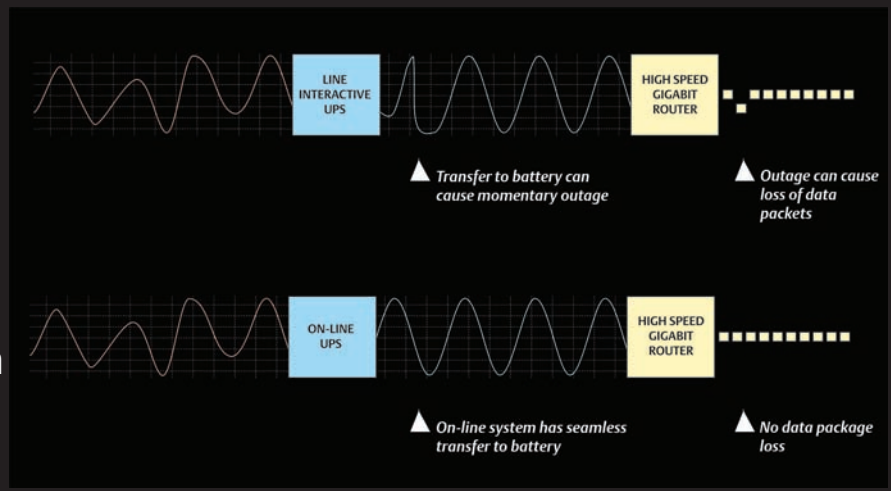
- Fault type is clearly displayed for fast troubleshooting.
- LED display provides maximum operational convenience when managing the UPS.

Intelligent Management functions

- Automatic battery boost/float charging capability helps provide quick charging of the Battery yet avoids battery damage due to over charging.
- Remote Monitoring is available via RS232, dry contacts and SNMP. The monitoring software supports TCP/IP with event log and analysis function.
- Self-diagnosis and protection enable the auto shutdown of the client terminal or server under abnormal mains supply or when battery is over discharged

True Online Double Conversion Technology:

When “Adequate” protection
is not enough



Technical Specification, Liebert GXT-RT

Mechanical		
Module	W	Weight (kg)
Power module GXT1000-RT	440	7.5
Power module GXT1000L-RT	440	7.8
Power module GXT2000-RT	440	8.6
Power module GXT2000L-RT	440	9.6
Power module GXT3000-RT	440	9
Power module GXT3000L-RT	440	10
Battery module GXT2000-BAT	440	20.5
Battery module GXT3000-BAT	440	21.5

EMS		
Item	Standard	Level
ESD immunity	IEC61000-4-2	Level 3, criterion B
REF immunity	IEC61000-4-3	Level 3, criterion A
EFTB immunity	IEC61000-4-4	Level 4, criterion A
Surge immunity	IEC61000-4-5	Level 4, criterion B
Lightening protection	YD/T 944	Level I, 6kV/3kA

EMI		
Item	Standard	Level
Limitation of emission of input harmonic currents	EN61000-3-2	-
Limitation of voltage changes, voltage fluctuations and flicker	EN61000-3-3	-
Conduction	EN/IEC62040-2	Class B
Emission	EN/IEC62040-2	Class B

Environmental	
Item	Normal range
Ambient temperature	0°C~40°C
Relative humidity	5%~95%
Altitude	Lower than 1500m: no derating; 1500m~3000m: 1% derating for every 100m rise
Storage temperature	-25°C~55°C (excluding battery)

Electrical						
Model	GXT 1000-RT	GXT 1000L-RT	GXT 2000-RT	GXT 2000L-RT	GXT 3000-RT	GXT 3000L-RT
Rating	1000VA/700W		2000VA/1400W		3000VA/2100W	
Input	Input system					
	1-phase, plus PE					
	Rated voltage					
	220Vac					
	Voltage range					
	1. 176~288Vac, full load 2. <176Vac, linear derating 3. 120Vac, half load					
	Frequency					
	50Hz±10%					
	Power factor					
	0.99 (conditions: rated voltage, full pure resistive load, fully charged battery)					
Output	Output system					
	1-phase, plus PE					
	Power factor					
	0.7					
	Voltage					
	220Vac±2%					
	Line regulation					
	≤2%(0~100% linear load)					
	Load regulation					
	≤2%(0~100% linear load)					
	Voltage harmonic distortion (rated input voltage, rated input frequency)					
	≤2%(0 ~100% linear load) ≤5%(0 ~100% non-linear load)					
	Dynamic transient response					
	IEC62040-3 Class 1					
	Dynamic response recovery					
	IEC62040-3 (60ms) Class 1					
	Frequency					
	The output frequency synchronizes with the bypass frequency when the bypass frequency is in the range of 50Hz±10%, with the phase difference less than 3 degrees; the output frequency is 50Hz when the bypass frequency is outside specifications or the bypass voltage is lower than 120Vac					
	Frequency synchronization speed					
	1 Hz/s					
	Inverter overload capability (in Normal mode, 25°C)					
	<105% continuous operation 105%~125% 5min 125%~150% 1min 150%~200% 10s >200% 0.25s					
	Inverter overload capability (in Battery mode, 25°C)					
	<105% continuous operation >105%~125% degredation from 60s~30s >125% 0.25s					
	Bypass overload capability					
	100%~150% 5min 151%~200% 1min					
	Crest factor					
	3:1					
	Bypass operating voltage					
	121Vac~253Vac					
	Transfer time					
	Normal<—>Battery: 0ms					
	DC component					
	≤200mV					
	Efficiency					
	Battery mode: ≥83% (rated battery voltage, full linear load) Normal mode: ≥88% (rated mains voltage, full linear load, battery fully charged)					
External battery voltage	36Vdc		72Vdc			
Charging current	1A	7A	1A	8A	1A	8A
Battery	Qty. ×Volts. ×Capacity		3×12V×7.2Ah		-	
	Manufacturer / model		CSB/GP1272F2 or Panasonic equivalent		-	
	Typical Autonomy Time		12 Minutes		-	
	Autonomy at Half Load		20 Minutes		-	
	Charging duration		90% of battery capacity in 5 hrs (standard type)			
Noise (within 1m)	GXT1000L-RT: 43dB GXT2000L-RT, GXT3000L-RT: 45dB					
Protection	IP21 (static state)					

Value-added optional Parts

web/SNMP card

Equipment Room Signal Adapter UPSite Plus monitoring system

Emerson Network Power

1050 Dearborn Drive P.O. Box 29186 Columbus, Ohio
43229
T: 614-8880246 F: 614-8416022
T: 800-8779222 (US and Canada Only)

Emerson Network Power Asia Pacific Headquarters

7/F, Dah Sing Financial Centre, 108 Gloucester Road,
Wanchai, Hong Kong
T: 852-25722201 F: 852-28310114

Country Offices**Emerson Network Power (Australia)**

Block P, Regents Park Estate, 391 Park Road, Regents Park,
Sydney, NSW 2143, Australia
T: 1800-065345 F: 61-2-97438737

Emerson Network Power (China)

No.1 Kefa Road, Science & Industry Park, Nanshan District,
Shenzhen 518057, China
T: 86-755-86010808 F: 86-755-86010909

Emerson Network Power (Hong Kong)

7/F, Dah Sing Financial Centre, 108 Gloucester Road,
Wanchai, Hong Kong
T: 852-25722201 F: 852-28310114

Emerson Network Power (India)

Plot No. C-20, Road No. 19, Wagle Industrial Estate,
Thane (West), Maharashtra 400604, India
T: 91-22-25807000 / 2388 F: 91-22-25828358

Emerson Network Power (Indonesia)

Wisma 46 - Kota BNI, 16th Floor, Suite 16.01,
Jl Jend. Sudirman Kav. 1, Jakarta 10220, Indonesia
T: 62-21-2513003 F: 62-21-2510622

Emerson Network Power (Japan)

New Pier Takeshiba, South Tower 7F, 1-16-1 Kaigan,
Minato-ku, Tokyo 105-0022, Japan
T: 81-3-54038594 F: 81-3-54032924

Emerson Network Power (Korea)

12F, Narae B/D, 719-1, Yeoksam-dong,
Gangnam-gu, Seoul, Korea, 135-080
T: 82-2-34831502 F: 82-2-5927883

Emerson Network Power (Malaysia) Sdn Bhd

Wisma Glomac 3, Block C, 6th Floor, Jalan SS 7/19,
Kelana Jaya, 47301 Petaling Jaya, Selangor Darul Ehsan, Malaysia
T: 603-7884 5000 F: 603-7884 5188

Emerson Network Power (New Zealand)

Unit 2, 75 Blenheim Road, Christchurch New Zealand
T: 64-3-3430235 F: 64-3-3430250

Emerson Network Power (Philippines), Inc.

3/F, King's Court 1 Building, 2129 Chino Roces Avenue,
Makati City 1200, Philippines
T: 63-2-8934177 / 178 F: 63-2-8112027

Emerson Network Power (Singapore) Pte Ltd

27 International Business Park #03-01 Primefield-Landmark
Building Singapore 609924
T: 65-64672211 F: 65-64670130

Emerson Network Power (Taiwan) Ltd

8F, No. 99, Nanjing East Road, Sec. 5, Taipei, 105, Taiwan, R.O.C.
T: 886-2-25283535 F: 886-2-25283100

Emerson Network Power (Thailand) Co Ltd

123 Suntowers Bldg.-B, 22nd Fl, Vibhavadi-Rangsit Road,
Ladyao, Chatuchak, Bangkok 10900, Thailand
T: 66-2-6178260 F: 66-2-6178277 / 278

Countries covered by our Asia Network include:

Bangladesh, Sri Lanka, Nepal, Pakistan, Vietnam,
Laos, Seychelles, Cambodia, Brunei, Papua New Guinea, Fiji

Mail marketing@emersonnetwork-ap.com for contact details

Emerson Network Power.

The global leader in enabling business-critical continuity.

emersonnetworkpower.com

- | | | |
|---|---|---|
|  AC Power |  Embedded Power |  Outside Power |
|  Connectivity |  Inbound Power |  Precision Cooling |
|  DC Power |  Integrated Cabinet Solutions |  Site Monitoring and Services |

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co. 2005 Emerson Electric Co.

AP05DPG15PHR1