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## Liebert GXT3

Reliable On-Line UPS Protection In A Compact 2U Package  
700VA -3000VA



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Liebert GXT3 is a full feature UPS providing reliable protection for IT network equipment and data centers. It is a true on-line UPS that delivers continuous, high-quality AC power to IT equipment with no break when transferring to battery. It protects equipment from virtually all power disturbances due to blackouts, brownouts, sags, surges or noise interference. The UPS is available in rack/tower configurations.

One of the most affordable UPS systems in its class, Liebert GXT3 leads the industry in combining small size, high capacity and high reliability features:

## Features



- On-line design means zero transfer time from external to internal power. When utility power fails, your critical load remains supported by a seamless flow of power.



- Its rated output power factor of 0.9 better matches up with switch-mode power supplies used in today's IT equipment. A higher output power factor allows for a more efficient utilization of the UPS.



- The UPS provides easy serviceability with user replaceable hot-swappable batteries.

- For maximum control, Liebert GXT3 is custom configurable to your needs using a specially designed Windows software package.



## The Liebert GXT3 Is Ideally Suited For:



- Data Centers
- Network Computers
- VoIP
- Network Closets
- Servers
- Large Network Peripherals
- Network Storage Devices

## Bringing our Enterprise Level IT Expertise to your SMB

Emerson Network Power offers a full range of power protection solutions suitable for every requirement or scenario. From desktop computing, network equipment, computer rooms to large scale data centers, we make sure you get the same level of protection the Fortune 500 companies enjoy with Emerson. It is our way of Bringing Enterprise Level IT expertise to your SMB.



### Desktop Computing

- Liebert PSP
- Liebert PSA



### Network / Computer Room

- Liebert PSI
- Liebert GXT
- Liebert ITA



### Data Center

- Liebert ITA
- Liebert NX
- Liebert Hipulse

# Liebert GXT3 Standard Features

## Flexibility

**Up To Six Battery-Backed Outlets**  
A generous quantity of battery-backed outlets allows more equipment to be protected by the UPS.

**Rotatable Display Panel**  
The LED display panel rotates 90° to make the readout of the LED display easy to see in rack or tower position.

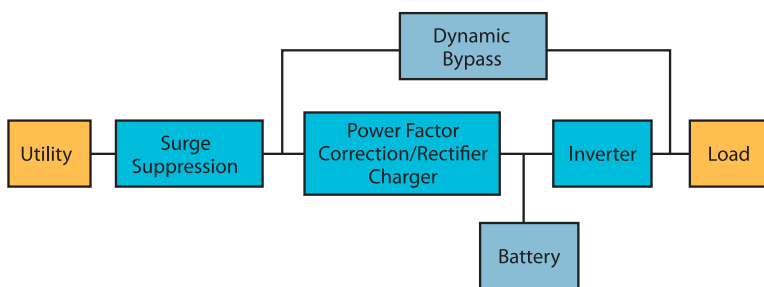
**Automatic Frequency Sensing**  
The UPS automatically adjusts to the input frequency, 50Hz or 60Hz.

**Mounting Flexibility**  
Optional telescoping rack rails mount to the sides of the UPS for easy installation into a rack enclosure. The UPS is provided with a standard tower support base.

## The Proven Reliability Of True On-Line Operation Plus The Features You Need Most

Although Liebert GXT3 requires just a slim 2U of rack space, it provides the capabilities of a physically larger system. Get up to 3kVA of capacity and battery backup, in 120V or 230V systems. External battery cabinets may be added for extended run time.

### On-Line UPS Protection for Essential and Critical Applications



Liebert GXT3 is a true on-line power source, so whatever the quality of power coming in, the pure sinewave output meets the exacting standards of your equipment.

Liebert GXT3 includes:

- Power factor correction
- Internal batteries
- Frequency conversion
- Internal automatic bypass to utility in case of adverse UPS conditions
- Manual bypass capability
- Support for up to four external battery cabinets (rack/tower models)

Liebert GXT3 handles all these potential power problems:

- Power spikes and transients
- EMI/RFI noise
- Voltage sags and brownout conditions
- Harmonics
- Power-factor corrected loads
- Outages
- Frequency variations



*Liebert GXT3 is easily configured for either rackmount or tower applications. The LED display rotates for easy viewing in either orientation.*



*Liebert GXT3 contains internal batteries, and is also able to support up to four external battery cabinets – also 2U size.*

## Higher Availability

### Advance Early Warning of UPS System Status

Multiple audible and visual alarms immediately alert you to an output overload, low battery, bypass, battery discharge, battery loss or replace battery condition.

### 4-6 minutes of Battery Backup Time at Full Load at 0.9 Power Factor

Provides ample time for an orderly shutdown of connected equipment when utility power fails. Optional matching external battery cabinets offer additional backup time.

### Overload Capability

Designed to handle output overload conditions.

### Full Sequenced Battery Testing

Provides automatic and manual self-diagnostic battery testing capabilities. It analyzes the condition of the batteries within the UPS and will notify you when the internal batteries need to be replaced.

### User Replaceable Hot Swappable Batteries

Easy to replace batteries increase product life and provide prolonged UPS reliability. Batteries are conveniently located behind the front bezel of the unit.

### Power-Factor Correction

Prevents noise, harmonics and distortion from being passed on to connected loads or from being fed back to the utility.

### Internal Automatic and Manual Bypass Capability

Assures continuity of power to critical loads during system problems or maintenance.

### Intelligent Battery Management

Includes efficient three-stage charging technique and comprehensive discharging protection that extends battery life for greater availability.

### Input Circuit Breaker

Provides increased protection to ease recovery from overloads.

### Lightning and Surge Protection

The transient voltage surge suppression (TVSS) circuitry inside Liebert GXT3 provides additional protection for the connected equipment from incoming spikes, surges, and other power anomalies present on the incoming utility power source.

## Lowest Total Cost Of Ownership

### 0.9 Output Power Factor

Liebert GXT3 rated output power factor of 0.9 better matches up with switch-mode power supplies used in today's IT equipment. A higher output power factor allows for a more efficient utilization of the UPS.

### Wide Input Voltage Window

Prolongs battery life by allowing the UPS to maximize the use of utility power before transferring to battery when input voltage exceeds specified limits.

### Intelligent Fan Operation

Automatically changes rotation speed depending on system requirements to decrease power consumption and noise.

### Efficient Operation

90% AC-AC efficiency

### Warranty Protection

The industry's best warranty – No-hassle two-year warranty with UPS replacement in the event of problems. Shipping is free for both original UPS return and the replacement unit. Optional one-year and three-year extensions also available.

## Multiple Choices For Communication, Shutdown And Reporting

### SNMP And Web-Based Communication Options

Liebert IntelliSlot® Web Card provides SNMP and web-based management to your Liebert GXT3. Provides SNMP MIB to monitor and control your UPS from your network management station or any PC running Microsoft Internet Explorer.

- Network shutdown
- Sends both SNMP traps and emails for event notification, and automatically emails a daily UPS history
- Auto-senses 10M/100M Ethernet
- Compatible with shutdown software to ensure graceful computer shutdown

The Liebert GXT3 is also fully compatible with:

- Liebert MultiLink™ shutdown software –included with the Liebert GXT3 UPS
- Liebert Nform™ monitoring software
- Liebert Multiport multiplexing unit
- Liebert Intellislot Relay Interface Card

### USB Communications

Windows (98 and later) built-in power management functions provide monitoring of UPS status and manage the automatic orderly shutdown of the computer if a power outage ever exceeds the battery capacity of the UPS. Liebert MultiLink shutdown software can also be used via USB connection.

### Optional Liebert MicroPOD Output Distribution And Maintenance Bypass Module

When your computer system can't be without power, even for scheduled UPS maintenance, the Liebert MicroPOD Maintenance Bypass and Output Distribution Unit ensures continuous uptime. It allows you to manually transfer connected equipment to utility power via a maintenance bypass switch, permitting scheduled service or UPS replacement without the need to shut down connected equipment. Features include:

- 2U height minimizes rack space requirements
- Installs with plug-and-play ease
- Two-year, no-hassle replacement warranty



Liebert MicroPOD

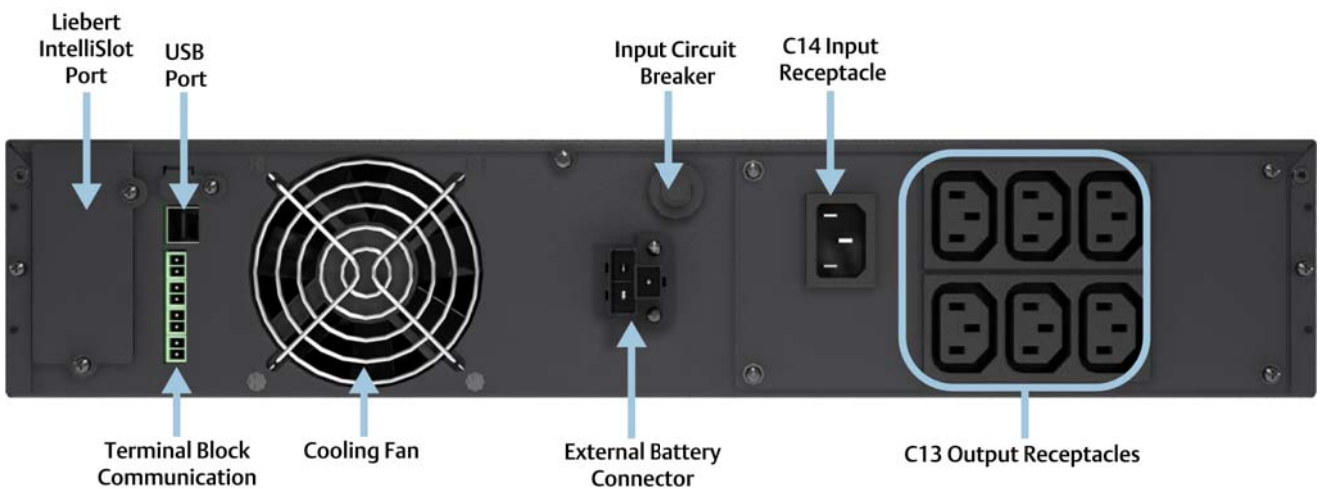


Liebert GXT3 mini-tower model provides 1000VA capacity in a compact design.

## Battery Run Times

| Number of Batteries                              | Model VA 1 | Load, % of Capacity |      |     |     |     |     |     |     |     |      |
|--|------------|---------------------|------|-----|-----|-----|-----|-----|-----|-----|------|
|  |            | 10%                 | 20%  | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% |
| Internal Battery                                 | 700VA      | 115                 | 57   | 39  | 29  | 24  | 19  | 15  | 12  | 10  | 9    |
|  | 1000VA     | 84                  | 42   | 28  | 20  | 14  | 11  | 9   | 8   | 6   | 5    |
|  | 1500VA     | 109                 | 46   | 27  | 19  | 13  | 10  | 8   | 6   | 5   | 4    |
|  | 2000VA     | 73                  | 33   | 21  | 14  | 11  | 8   | 7   | 5   | 4   | 4    |
|  | 3000VA     | 73                  | 34   | 21  | 14  | 11  | 9   | 7   | 5   | 4   | 4    |
| Internal Battery<br>+1 External Battery Cabinet  | 700VA      | 529                 | 284  | 194 | 139 | 111 | 93  | 77  | 66  | 56  | 50   |
|  | 1000VA     | 386                 | 212  | 129 | 98  | 75  | 59  | 50  | 42  | 35  | 32   |
|  | 1500VA     | 315                 | 147  | 96  | 67  | 50  | 39  | 33  | 27  | 23  | 20   |
|  | 2000VA     | 252                 | 117  | 78  | 58  | 43  | 35  | 28  | 25  | 21  | 19   |
|  | 3000VA     | 252                 | 120  | 78  | 57  | 43  | 35  | 29  | 25  | 22  | 19   |
| Internal Battery<br>+2 External Battery Cabinets | 700VA      | 1110                | 524  | 380 | 281 | 230 | 189 | 149 | 125 | 108 | 97   |
|  | 1000VA     | 765                 | 383  | 265 | 197 | 142 | 115 | 97  | 86  | 76  | 67   |
|  | 1500VA     | 576                 | 283  | 182 | 123 | 97  | 80  | 66  | 55  | 48  | 42   |
|  | 2000VA     | 467                 | 227  | 141 | 98  | 80  | 66  | 54  | 46  | 40  | 36   |
|  | 3000VA     | 467                 | 227  | 141 | 98  | 80  | 66  | 55  | 46  | 41  | 36   |
| Internal Battery<br>+3 External Battery Cabinets | 700VA      | 1522                | 895  | 560 | 389 | 345 | 287 | 242 | 208 | 165 | 156  |
|  | 1000VA     | 1136                | 584  | 388 | 305 | 238 | 188 | 157 | 128 | 110 | 96   |
|  | 1500VA     | 790                 | 406  | 263 | 196 | 147 | 114 | 96  | 86  | 75  | 65   |
|  | 2000VA     | 681                 | 321  | 217 | 148 | 110 | 89  | 80  | 70  | 61  | 55   |
|  | 3000VA     | 681                 | 321  | 217 | 148 | 110 | 91  | 80  | 70  | 62  | 55   |
| Internal Battery<br>+4 External Battery Cabinets | 700VA      | 1991                | 1208 | 822 | 550 | 460 | 360 | 317 | 280 | 247 | 219  |
|  | 1000VA     | 1488                | 880  | 553 | 380 | 315 | 263 | 215 | 185 | 161 | 137  |
|  | 1500VA     | 1104                | 567  | 348 | 271 | 209 | 165 | 128 | 113 | 96  | 87   |
|  | 2000VA     | 994                 | 467  | 285 | 206 | 163 | 120 | 101 | 88  | 80  | 74   |
|  | 3000VA     | 995                 | 467  | 285 | 206 | 163 | 120 | 104 | 88  | 81  | 74   |

## Rear Panel Components, Liebert GXT3 230V, 700VA, 1000VA and 1500VA models



## Technical Specifications

| Model Number                    | GXT3-700RT230  | GXT3-1000RT230                  | GXT3-1500RT230 | GXT3-2000RT230      | GXT3-3000RT230                             |
|---------------------------------|--|---------------------------------|----------------|---------------------|--|
| Input Connection                | IEC-320 C14  |                                 |                | IEC-320 C20         |  |
| Output Connection               | IEC-320 C13 x 6  |                                 |                |                     | IEC C13 x 6 + C19 x 1                      |
| Communication Interface         | USB, Terminal blocks (anymode shutdown, On batt, Low batt), Intellislot        |                                 |                |                     |  |
| Dimensions: (mm)                | 85(2U) x 430 x 497   |                                 |                |                     | 88 (2U) x 430 x 602                        |
| Shipping Dimensions: (mm)       | 262 x 570 x 617  |                                 |                |                     | 262 x 570 x 717                            |
| Net Weight: (kg)                | 16.8   | 16.8                            | 23.2           | 24.0                | 28.0                                       |
| Shipping Weight: kg             | 20.0   | 20.0                            | 26.0           | 28.0                | 32.0                                       |
| Form Factor                     | Rack/Tower Convertible, Tower Stand included                                   |                                 |                |                     |  |
| Input Power Cable               | Nil  |                                 |                |                     | "Shucko" CEE 7/7 and BS1363 to IEC-320-C19 |
| Number of Output Cable          | 2  |                                 |                | 3                   |  |
| Software                        | Liebert Multilink, support for Windows NT/2000/XP/Vista, Linux                 |                                 |                |                     |  |
| Operation                       | GXT3-700RT230  | GXT3-1000RT230                  | GXT3-1500RT230 | GXT3-2000RT230      | GXT3-3000RT230                             |
| Capacity                        | 700VA/630W   | 1000VA/900W                     | 1500VA/1350W   | 2000VA/1800W        | 3000VA/2700W                               |
| Normal Input Voltage            | 220/230/240VAC (configurable)  |                                 |                |                     |  |
| Input Voltage Window            | 177-280VAC (100% load), 115-280VAC (30% load)                                  |                                 |                |                     |  |
| Input Frequency Window          | 40-70Hz  |                                 |                |                     |  |
| Input Protection Type           | Resettable Circuit Breaker   |                                 |                |                     |  |
| Default frequency               | 50Hz   |                                 |                |                     |  |
| Efficiency                      | >90% on Line Mode  |                                 |                |                     |  |
| Output (battery mode)           | Voltage  | 220/230/240VAC (configurable)   |                |                     |  |
|                                 | Voltage Regulation   | >± 3%                           |                |                     |  |
|                                 | Wave Form  | Pure Sine Wave                  |                |                     |  |
| Battery type                    | Sealed, non-spillage, maintenance-free, lead acid with 5 year typical lifetime |                                 |                |                     |  |
| Quantity x Voltage x Ah         | 4 x 12 x 5   |                                 | 4 x 12 x 7.2   | 4 x 12 x 9          | 6 x 12 x 9                                 |
| Backup Time at full load pf 0.7 | >11 minutes  | >8 minutes                      | >8 minutes     | >6 minutes          | >5 minutes                                 |
| Backup Time at full load pf 0.9 | >6 minutes   | >4 minutes                      | >4 minutes     | >4 minutes          | >4 minutes                                 |
| Typical Recharge Time           | 3 hours to 90% of rated capacity, after full discharge into resistive load     |                                 |                |                     |  |
| Hot Swappable Battery           | Yes  |                                 |                |                     |  |
| RFI/EMI                         | IEC/EN/AS62040-2 2nd Ed = CISPR22 Class A                                      |                                 |                |                     |  |
| Agency Approvals                | Safety   | IEC/EN/AS 62040-1-1: 2008       |                |                     |  |
|                                 | Surge Immunity   | IEC/EN/AS 62040-2 2nd Ed        |                |                     |  |
|                                 | Transportation   | ISTA Procedure 1A Certification |                |                     |  |
|                                 | WEEE and ROHS  | Yes                             |                |                     |  |
| Operation Condition             | 3,000 meter max. elevation, 0-95% humidity non-condensing 0-40 deg. C          |                                 |                |                     |  |
| Noise Level                     | <45dBA on Line Mode  |                                 |                | <48dBA on line mode |  |
| Accessories                     | GXT3-700RT230  | GXT3-1000RT230                  | GXT3-1500RT230 | GXT3-2000RT230      | GXT3-3000RT230                             |
| SNMP/WEB Management Card        | IS-WEBCARD   |                                 |                |                     |  |
| External battery cabinet        | GXT3-48VBATT   |                                 |                |                     | GXT3-72VBATT                               |
| Maintenance Bypass Switch       | MP2-210K   |                                 |                |                     | MP2-220L                                   |

## Battery Cabinet Specifications

| Parameters                     | Model Number  |   |
|--------------------------------|---|---|
|                                | GXT3-48VBATT  | GXT3-72VBATT                            |
| Used w/UPS Model               | GXT3-700RT230, GXT3-1000RT230, GXT3-1500RT230, GXT3-2000RT230 | GXT3-3000RT230                          |
| Dimensions, D x W x H, mm (in) |   |   |
| Unit                           | 497 x 430 x 85<br>(19.7 x 16.9 x 3.3)                         | 602 x 430 x 85<br>(23.6 x 16.9 x 3.3)   |
| Shipping                       | 617 x 570 x 262<br>(24.3 x 22.4 x 10.3)                       | 717 x 570 x 262<br>(28.2 x 22.4 x 10.3) |
| Weight, kg (lb)                |   |   |
| Unit                           | 32 (70.5)   | 42 (92.6)                               |
| Shipping                       | 35 (77.2)   | 46 (101.4)                              |
| Battery parameters             |   |   |
| Type                           | Valve-regulated, nonspillable, lead acid                      |   |
| Qty x V x Rating               | 2 x 4 x 12V x 9.0 Ah  | 2 X 6 X 12V x 9.0Ah                     |
| Battery Mfr/Part#              | Panasonic/UP-RW1245 CSB/HR 1234W F2                           |   |



### Global Service and Local Reach

Emerson Network Power provides the advantage of no hassle warranty and product maintenance agreements. Our technical support experts are available locally and through toll free lines, covering all models of Liebert GXT3.

#### Emerson Network Power Asia Pacific

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