For Business-Critical Continuity™

Liebert® GXT3, 5kVA-10kVA UPS Compact UPS Systems For High Power Network Rack Applications







Liebert GXT3, 5kVA-10kVA UPS Systems: Big Protection, Small Package

Today's converged networks require increased availability and reliability. This has created a need for higher density power protection systems that adapt to mixed load voltages and plug types, while remaining easy to install and maintain.

New IT technologies, such as VoIP and PoE, have greatly increased power demands. Unfortunately, as these requirements have risen, the amount of space available for your protected equipment and related power support systems has not.



Liebert GXT3 UPS meets the need for higher power capacities in small spaces. This true on-line double conversion UPS system is available in 5kVA – 10kVA models, and features integrated maintenance bypass, as well as optional extended battery runtime. Add support — Emerson Network Power Service — and it all equals greater power assurance and reliability.

Designed for use in either rack or tower configurations, all units offer the smallest available solutions for these power capacities — the 5 & 6kVA model at 120/208V output in 4U size, or the 8 & 10kVA unit 120/208V output in a 6U package. A 6kVA 208V output 5U size model is also available.

To help meet the need for choosing a single supplier for global applications, 220V, 230V and 240V 50/60 Hz models are offered with CE and C-tick markings.

Dual Voltages For Multiple Applications

Simultaneous output voltages of 240/120, 208/120, 230/115, 220/110, or 200/100 VAC provide the flexibility to adapt to multiple load requirements without the need to add additional transformers that take up extra space and add weight. Input power factor correction to 0.99 reduces current harmonics and their heating effects.

Communications For Power Monitoring And Control

Liebert GXT3 UPS offers a variety of communications options to provide the monitoring and control capabilities demanded by today's network computing systems.

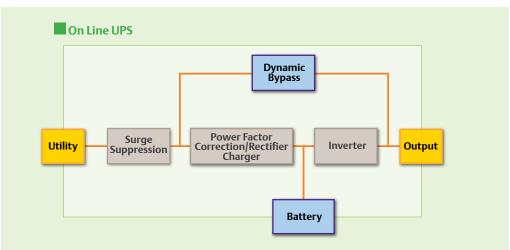
Operation can be monitored using:

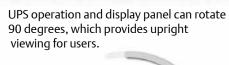
- Liebert IntelliSlot Web Card provides SNMP and web-based monitoring and control of your UPS.
- Liebert MultiLink™ Automated System Shutdown Software
- Liebert Nform™ Monitoring System
- Liebert Universal Monitor And Remote Power Monitor Panels
- Third-Party Monitoring Systems



Liebert IntelliSlot Webcard provides SNMP and web-based management









Liebert GXT3 UPS Includes These Outstanding Features:

Flexibility:

- Rack/tower configuration. The versatile unit installs in either configuration, and includes a rotating LED display panel that conforms to the desired orientation.
- Automatic frequency detection. Detects and matches line input frequencies of either 60 or 50 Hz.
- User replaceable hot-swappable internal batteries. Provide four minutes of runtime at full load.
- Additional runtime with additional battery cabinets. UPS cabinet includes rear panel plug-and-play connections for optional battery cabinets. Cabinet sizes: 5-6kVA 2U, 8-10kVA 4U, 6kVA 208V 3U
- Liebert IntelliSlot[™] communications port. Utilizes Liebert IntelliSlot Web Card to provide SNMP and web-based monitoring and control of your UPS.
- Includes Windows-based configuration program. Allows various operating parameters to be adjusted and tests to be scheduled.
- Built-in USB communications for use with Liebert MultiLink™ Automated Shutdown Software. Allows you to monitor communication between the UPS and a server, and ensures a graceful unattended shutdown.
- Built-in closure signals. Provides notification to monitoring systems of operating conditions including: on battery, low battery, battery mode shutdown and any mode shutdown.
- Emergency Power Off (EPO). Terminal connections for a normally open or normally closed emergency power off switch.

Higher Availability:

- Wider input voltage window minimizes battery use. Features a wide input voltage window that allows the UPS to support the critical load without having to transfer to battery, extending system availability for when battery back-up is truly needed.
- Internal automatic and manual bypass. Assures continuity of power to critical loads during system maintenance or in case of internal fault.
- Self-diagnostics. Automatically tests unit electronics and batteries.
 Designed to simplify maintenance and troubleshooting.

Lowest Total Cost Of Ownership:

- Standard two-year replacement warranty. No-hassle warranty provides paid shipping both ways. Optional one-year and three year extensions available.
- **Uses less rack space**. Leaves more room for network equipment.
- For longer service life. Shields batteries from heat generating electronic components, enhancing battery life.
- Battery cutoff voltage Automatically adjusts based on load, extending battery life by preventing overdischarge of batteries.

Liebert Power Assurance Package Offers A Worry-Free UPS Solution For Your Network

Liebert GXT3 5-10kVA UPS systems may be purchased as part of the Liebert Power Assurance Package. While today's smaller, rack-based UPS systems offer relatively trouble-free operation, the growing criticality of the systems they support has increased the cost of downtime. As a result, the need to maintain these smaller UPS systems is increasingly important.

This all-inclusive package offers | you complete peace-of-mind for five years including:

UPS — A compact, high quality on-line Liebert GXT3 UPS (5, 6, 8 or 10kVA).

Start-up — On-site system start-up by a certified Emerson Network Power Customer Engineer, scheduled anytime, 24 x 7. This includes removal and disposal of your existing UPS.

Preventive maintenance —
One preventive maintenance
visit completed in year 3 by a
certified Emerson Network Power
Customer Engineer includes 100%
Parts Coverage — even internal
batteries

Full parts coverage — Your on-line Liebert UPS benefits from 100% parts coverage for five years, including all internal

On-site service — Should you experience a problem, we will dispatch a certified Emerson Network Power Customer Engineer to repair or replace your equipment — with 4-hour response guaranteed.

5 Or 6kVA Of True On-Line Power In A Compact 4U Package

Liebert GXT3 5 & 6kVA models are true on-line UPS systems that provide internal batteries and dual output voltage. They are an ideal fit for applications where the power requirements are demanding — but rack space is limited — delivering 5kVA (4kW) or 6kVA (4.8kW) of power in a single 4U size cabinet. This cabinet size is well suited for installations such as network closets or small data centers.



For installation flexibility, the Liebert GXT3 5 & 6kVA models allow you to choose from several different wiring configurations made possible by the use of removable power distribution boxes that simply plug into the rear of the UPS. The standard box provides terminal blocks for hardwired input and output connections. An optional hardwire version that includes a maintenance bypass is also available.

When the ease of plug-and-play power connections is desired, optional versions of the power distribution box convert Liebert GXT3 5 & 6kVA units to a cord-type input with receptacles for output distribution, and also offers maintenance bypass capability that allows hot-swapping of the entire UPS. The UPS has as adaptable dual inverter design, capable of providing simultaneous output voltages of 240/120, 208/120, 230/115, 220/110, or 200/100 and an output power factor of 0.8.





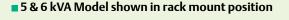
PD2-HDWR ships standard with the unit and is hardwire input/output



PD2-HDWR-MBS is an optional hardwire input/output POD with maintenance bypass



Pluggable input/output PODs available with maintenance bypass





6 kVA Model shown in tower position with optional battery cabinet

8kVA And 10kVA Of Power In Just 6U Of Space



The internal battery packs are hot-swappable, and user repleaceable. The unit also supports up to four external battery cabinets for extended run time.



■8 & 10 kVA Model shown in rack mount position



UPS is hardwire input/output with maintenance bypass and includes no POD standard.



■ 10 k VA Model shown in tower position with optional battery cabinet



Optional PODs available

This Liebert GXT3 8 & 10kVA units offer a flexible solution for protecting rack-mount equipment, including VoIP and PoE. Especially designed for use with the new generation of high power switches, these compact UPS systems pack 8kVA (7.2kW) or 10kVA (9kW) of power into a 6U rack/tower package with flexible output voltage and optional output distribution. The UPS includes built-in, userreplaceable batteries for up to four minutes of runtime at full load.

Adaptable Design

The UPS has a dual inverter design, capable of providing simultaneous output voltages of 240/120, 208/120, 230/115, 220/110, or 200/100 and an output power factor of 0.9. The new 6U cabinet is the smallest for 208/120 selectable voltage in the 8-10kVA size. The unit features integrated internal manual and automatic maintenance bypass, power module, battery modules, auto detection of extended battery cabinets and optional plug-and-play distribution plates.

The standard 8 & 10kVA models include terminal blocks for hardwired connections of both input and output. Optional power distribution modules are available to add output receptacles to the rear panel of the unit.

Hot-Swappable Operation

Liebert GXT3 8 & 10kVA units feature three bays for one power module and two battery modules. The chassis contains a bypass switch that allows all modules to be removed without powering down the connected load.

Product specifications

Model Number	GXT3-5000RT208	GXT3-6000RT208	GXT3-8000RT208	GXT3-10000RT208				
Model Rating	4000W/5000VA	4800W/6000VA	7200W/8000VA	9000W/10000VA				
Dimensions, Rack Mount, W x D x H Unit in. (mm)	16.9 x 26.1 x 6.	8 (430 x 662 x 173)	16.9 x 26.5 x 10.3	(430 x 672 x 261)				
Weight Unit, lb (kg)	56.	2 (25.5)	78.3 (35.5)					
nput AC Parameters								
Nominal Operating Frequency		50 or 60Hz (Factory Default is 60Hz)						
Factory Default VAC		120/208VAC						
Factory Default L1-N, L2-N VAC		120 VAC nominal						
Input Frequency w/o Battery Operation	40 - 70 Hz							
Input Power Connection	Hardwire Terminal Block 3W + G (L-L-N-G)							
L1-N, L2-N Maximum Allowable VAC	150VAC							
Output AC Parameters								
Factory Default VAC	120/208V AC							
Factory Default L1-N, L2-N VAC	120VAC nominal							
User Configurable L1-N, L2-N VAC	100/110/115/120/127VAC, ±2%							
Overload Rating								
105% to 130%		11	Minute					
131% to 150%	10 seconds							
151% to 200%	1 second							
>200% (impact load)		At least 5 cycles						
Environmental								
Operating Temp, °F (°C)	32 to 104 (0 to 40)							
Storage Temp, °F (°C)	5 to 122 (-15 to 50)							
Audible Noise	Less than 55dBA at 3.2ft. (1m) rear; less than 50dBA at 3.2ft. (1m) front and sides							
Operating Elevation	Up to 10,000 ft. (3000m) at 104°F (40°C) without derating							
Relative Humidity		0% to 95%, non-condensing						
Agency								
Safety	UL 1778, c-UL Listed							
RFI/EMI	FCC Part 15, Subpart B, Class A, FCC Class A							
Surge Immunity		IEEE/ANSI C62.41 Category A & B						
Transportation		ISTA Procedure 1A						
Internal battery specifications								
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Internal battery specifications						
Model Number	GXT3-144BATKIT	GXT3-288RTBKIT				
Used with UPS Model	GXT3-5000RT208 / GXT3-6000RT208	GXT3-8000RT208 / GXT3-10000RT208				
Dimensions, W x D x H, Unit in (mm)	8.1 x 19.3 x 2.8 (206 x 490 x 70)	8.1 x 19.7 x 5.3 (207 x 500 x 135)				
Weight, Unit lb (kg)	75.8 (34.4)	71.2 (32.3)				
Battery Parameters						
Туре	Valve-regulated, non-spillable, lead acid					
Kit Quantity x Battery Quantity x V x Rating	2 x 6 x 12V x 9.0 AH	2 x 12 x 12V x 9.0 AH				
Battery Mfr / Part #	Yuasa / REW 45-12					
Recharge Time	3 hours to 90% capacity after full discharge into 100% load					
Environmental	Operating Temp, Storage Temp, Operating Elevation, and Relative Humidity: Same as UPS					

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Dimensions, Unit (with be	W x D x H, zel) in. (mm)			16.9 x 26.1 x 3.3 (430 x 662 x 85)			16.9 x 22.6 x 5.1 (430 x 574 x 130)				16.9 x 26.5 x 6.8 (430 x 672 x 173)		
Weight, Unit	lb (kg)			99	.9 (45.3)		94.8 (43)				29.8 (13.5)		
Battery Parar	neters												
•		Туре	2			\	/alve-reg	ulated, n	on-spillable, lea	nd acid			
Kit Quantity	x Battery Qu	uantity x Rating]	2 x 6 x	12V x 9.0 Al	4		2 x 10 x 1	2V x 9.0 AH		2 x 12 x	12V x 9.0 AH	
	Batt	ttery Mfr., Part # Yuasa / REW 45-12											
Environment	al				Operating T	emp, Storage	Temp, O	perating l	Elevation, and I	Relative Humio	dity: Same a	s UPS	
Power dis	tribution l	box specific	ations	: GXT3-50	00RT208	, GXT3-600	OORT2	08 and	GXT3-6000	RTL630			
Power Distril Model Numb		PD2-HDWR	PD2-H	IDWR-MBS	PD2-001	PD2-002	PD	2-003	PD2-004	PD2-005	PD2-005	PD2-L630	
Dimensions, Unit in (mm)		5.2x15.5x3.5 (132x393x88)		5.2x15.5x3.5 (132x393x88)			5.2x15.5x3.5 (132x393x88)		5.2x15.5x3.5 (132x393x88)		4.7x13.2x4.1 (119x335x105)		
Weight, lb (k	g)	5.1 (2.3)		6 (2.7)	8.8 (4)	8.6 (3.9) 8	.6 (3.9)	9.9 (4.5)	10.6 (4.8)	9.5 (4.3	8.8 (4)	
Electrical Spe	cifications												
	Amp Rating					30A 2-pole i	nput bre	aker for U	IPS input powe	r			
	nput Power Connections	Hardwire Terminal Block 3W + G (L-L-N-G)				[1] L14-30R on a 3.2m cord					(1) L6-30P		
	tput Power Connection	Hardwire Terminal Block 3W + G (L-L-N-G)			(4) 5-20F (1) L14-3 (1) L6-30	0 (2) 5-20		(4) 5-20R (2) L6-30 (2) L5-30R		(4) L5-20R (2) L6-30R	(4) L6-20	OR (2) L6-20R (2) L6-30R	
Power dist	tribution l	oox specifica	ations	for GXT3-	8000RT2	08 and GX	T3-10	000RT2	208				
Power Distr Mod	ibution Box del Number	PD2-10	1	PD2-	102	PD2-10)3	P	PD2-104	PD2-105		PD2-106	
Dimensions, Unit in. (mm)		7.4 x 5.7(188	(5.7(188 x 145) 7.4 x 5		88 x 145) 7.4 x 5.7(188 x		8 x 145)	45) 7.4 x 5.7(188 x 145)		7.4 x 5.7(188 x 145)		7.4 x 5.7(188 x 145)	
Weight, Unit	lb (kg)	4.4 (2)		6.6 ((3)	6.6 (3))		6.6 (3)	4.4 (2)		6.6 (3)	
Electrical Spe	cifications												
,	Amp Rating					2-	pole 60 <i>A</i>	Input Bre	eaker				
	nput Power Connections												
		(2) L6-3((8) 5-20		(4) L6- (4) 5-		(4) 5-20R (4) L6-30R		(4) 5-20R (2) L6-30R (2) L6-20R		(4) 5-20R (2) L5-30R (2) L5-20R		(4) L6-20R (4) L5-20R	
Battery ru	n time, m	inutes											
		Run Time, Minu	utes										
	Load	GXT3-5000RT2	08	GXT3-0	5000RT208	GX	Г3-6000	RTL630	GXT3-8	3000RT208	GXT	T3-10000RT208	
	10%	105			100		>	>90		150		90	
Internal Battery	20%	50			41		60		57			42	
	30%	30			23		40			34		26	
	40%	22			17		27			25		18	
	50%	16			12		21			18		13.5	
	60%	12			10			16		14		11	
	70%	10			7			13		12		8	
	80%	8			5.5			11		9		7	
	90%	6			4.5		9		8		6		

External battery cabinet specifications

100%

Model Number

Used w/UPS Model

GXT3-144VBATT

GXT3-5000 & GXT3-6000RT208

GXT3-240VBATTUL

GXT3-6000RTL630

GXT3-288RTBATT

GXT3-8000 & GXT3 10000RT208

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Emerson Network Power, a business of Emerson (NYSE:EMR), is the global leader in enabling Business- Critical Continuity™ from grid to chip for telecommunication networks, data centers, health care and industrial facilities. Emerson Network Power provides innovative solutions and expertise in areas including AC and DC power and precision cooling systems, embedded computing and power, integrated racks and enclosures, power switching and controls, monitoring, and connectivity. All solutions are supported globally by local Emerson Network Power service technicians. Liebert AC power, precision cooling and monitoring products and services from Emerson Network Power deliver Efficiency Without Compromise™ by helping customers optimize their data center infrastructure to reduce costs and deliver high availability.

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Embedded Power
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Surge Protection

Power Switching & Controls

Precision Cooling