LIEBERT® PSI-XR

High Performance Rack-Mount UPS for Network Power Protection

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OVERVIEW

Liebert PSI-XR allows you to get more from your UPS and your protected equipment, with features normally found only on more expensive systems:

- Greater than five minutes of internal battery backup time at full load provides ample time for an orderly shutdown of connected equipment.

- Optional matching external battery cabinets offer more backup time - add up to 6 additional cabinets to extend battery runtime to meet equipment needs.

- Liebert PSI-XR operates at a higher output power factor - meaning less power consumption. This results in your network running at lower power levels and lower heat levels, and ultimately provides a longer network service life.

- Remote communications and shutdown options provide remote monitoring and power management - serial and contact closure, USB, SNMP

Liebert® PSI-XR is a compact, line-interactive UPS system designed especially for IT applications such as network closets and small data centers. It provides reliable power protection for servers, critical nodes, network workstations, large network peripherals, network routers, bridges, hubs and other electronic equipment. Matching battery cabinets are available to extend the on-battery operating time.

Ideally suited for:

- PCs
- Network workstations
- Servers
- Network closets
- Large network peripherals
- VoIP

Reliable UPS Protection And Extended Battery Time To Keep Your Network Up And Running

The flexible design of Liebert® PSI-XR allows the unit to be configured as a self-standing tower or to be rack-mounted within a 2U space. It is available in four capacities, and both 120V or 230V models.

The UPS features an innovative line-interactive design incorporating buck/boost automatic voltage regulation technology. This protects against utility voltage fluctuation by raising and lowering utility power to the level needed by the connected equipment. It also allows the UPS to prolong battery life by maximizing its time on utility power before going to battery.
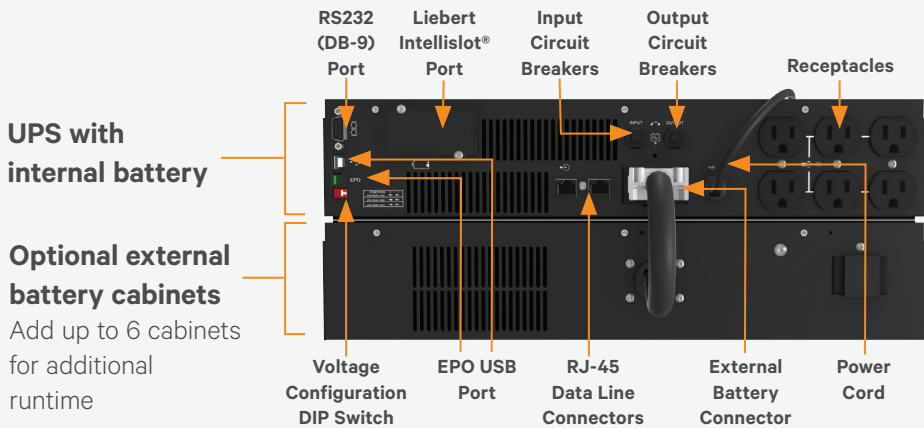
Battery Runtime Chart
(Runtimes are in minutes, assuming fully charged batteries at 25°C)

NUMBER OF BATTERIES	LOAD %	1000VA	1500VA	2200VA	3000VA
Internal Battery	50	15	13	14	13
	100	6	5	5	5
Internal Battery +1 External Battery Cabinet	50	73	55	45	31
	100	31	18	15	12
Internal Battery +2 External Battery Cabinet	50	129	95	67	56
	100	65	46	29	18
Internal Battery +3 External Battery Cabinet	50	181	131	95	73
	100	96	64	48	31
Internal Battery +4 External Battery Cabinet	50	233	167	143	95
	100	124	82	72	47
Internal Battery +5 External Battery Cabinet	50	285	203	167	113
	100	151	106	84	56
Internal Battery +6 External Battery Cabinet	50	336	239	191	131
	100	179	124	102	65

Optional external battery cabinets
Provide extended runtime for applications that require longer backup time.

UPS with internal battery

Optional external battery cabinets
Add up to 6 cabinets for additional runtime

RS232 (DB-9) Port

Liebert Intellislot® Port

Input Circuit Breakers

Output Circuit Breakers

Receptacles

Voltage Configuration DIP Switch

EPO USB Port

RJ-45 Data Line Connectors

External Battery Connector

Power Cord

Liebert PSI-XR Standard Features

Flexibility

Six to seven battery-backed outlets
Allows the Liebert PSI-XR to be more flexible in accommodating additional equipment to be connected to the UPS via the 15, 20 or 30 Amp receptacles.

Configurable input voltage window
Allows the UPS to be properly matched to the incoming utility power and adjusts its input window and transfer points to supply precisely regulated power to connected loads within the selected range. Also enables the UPS to meet the required input voltage when transferring to battery.

Rotatable Display Panel
90 degrees rotatable 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.

Rack Rail Kit
These telescoping rails mount to the sides of the UPS to facilitate installation into a rackmount enclosure.

Higher Availability:

Data line surge protection
Network surge protection for equipment connected to the UPS via the RJ-45.

Advance early warning of UPS system status
The Liebert PSI-XR offers multiple audible and visual alarms to immediately alert you to an input voltage fluctuation (buck/boost), output overload, low battery or replace battery condition.

Greater than five minutes of battery backup time at full load when utility fails Provides ample time for an orderly shutdown of connected equipment. Optional matching external battery cabinets offer more backup time.

Full sequenced battery testing
The Liebert PSI-XR provides a manual self-diagnostic test feature. This provides a comprehensive analysis of the condition of the batteries within the UPS and will notify you when the internal batteries need to be replaced. The battery test feature can also be programmed for automatic operation using Liebert shutdown software.

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

Remote emergency power off
Allows the UPS to be remotely shut down during an emergency.

User replaceable hot swappable batteries
Increase product life and provide prolonged UPS reliability. Batteries are conveniently located behind the front bezel of the unit.

Lowest Total Cost Of Ownership:

0.9 Output Power Factor
Liebert PSI operates at a higher output power factor - meaning less power consumption. This results in your network running at lower power levels and lower heat levels, and ultimately provides a longer network service life.

Wider 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.

Reduced installation time and costs
UPS is shipped with batteries connected and charged.

Warranty Protection
Standard two-year warranty ensures UPS replacement if problems occur during the warranty period. Optional one-year and three-year extensions also available.

Multiple Choices For Communication, Shutdown And Reporting:

Serial and Contact Closure Communication Option
Automated shutdown software allows you to monitor communication between the UPS and a server. It also ensures a graceful unattended shutdown in the event of an extended power failure.
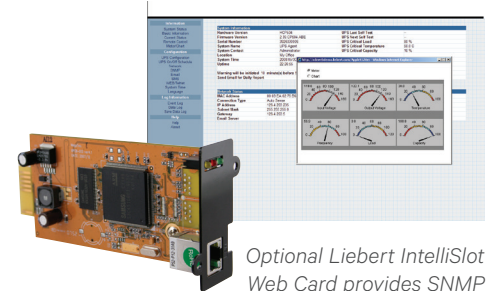
USB Communications
Windows (98 and later) built-in power management functions provide monitoring of UPS status and manage the automatic orderly shutdown of the computer if a power outage ever exceeds the battery capacity of the UPS. Liebert USB shutdown and monitoring software is provided.

SNMP Communication Option
Liebert IntelliSlot® Web Card provides SNMP and web-based management to your Liebert PSI-XR. 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

Optional Liebert IntelliSlot Web Card provides SNMP and web-based management

Liebert PSI-XRW Network Solution Package With Built-In Communications

Liebert PSI-XRW is the standard Liebert PSI-XR made network–ready with a factory-installed Liebert IntelliSlot Web Card for SNMP communications. This totally integrated, cost-efficient solution allows remote monitoring, start-up or restart for connected equipment.

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® PSI-XR Specifications

Model Number	PS1000RT3-120XR	PS1500RT3-120XR	PS2200RT3-120XR	PS3000RT3-120XR
Network Solutions Package Number	PS1000RT3-120XRW	PS1500RT3-120XRW	PS2200RT3-120XRW	PS3000RT3-120XRW
Power Rating, VA/W	1000VW/900W	1500VW/1350W	1920VW/1920W	3000VW/2700W
DIMENSIONS, W X D X H IN (MM)				
Unit	17.3 x 19.3 x 3.5 (440 x 490.5 x 88)	17.3 x 19.3 x 3.5 (440 x 490.5 x 88)	17.3 x 27.6 x 3.5 (440 x 700.5 x 88)	17.3 x 27.6 x 3.5 (440 x 700.5 x 88)
Shipping	22 x 24.1 x 9 (560 x 612 x 228)	22 x 24.1 x 9 (560 x 612 x 228)	22 x 34.8 x 9 (560 x 884 x 228)	22 x 34.8 x 9 (560 x 884 x 228)
WEIGHT, LB (KG)				
Unit	56 (25)	62 (28)	92 (42)	105 (48)
Shipping	64 (29)	70 (32)	101 (46)	115 (52)
INPUT AC PARAMETERS				
Surge Protection	570J			
Voltage Range Without Battery Operation	83 to 159 VAC (configurable)			
Frequency Range	45~65Hz, (0.5Hz)			
Input Power Cord, 10ft (3m) attached	NEMA 5-15P plug	NEMA 5-15P plug	NEMA 5-20P plug	NEMA L5-30P plug
Output Receptacles	(6) NEMA 5-15R	(6) NEMA 5-15R	(4) NEMA 5-15R (2) NEMA 5-20R T-Slot, accepts 15A plug	(4) NEMA 5-15R (2) NEMA 5-20R T-Slot, accepts 15A plug (1) NEMA L5-30R
Voltage (Normal Mode)	110/120/127 VAC (configurable)			
Voltage (Battery Mode)	110/120/127 VAC; 5% before low-battery warning			
Transfer Time	4-6 ms typical			
Battery Waveform	Sinewave			
BATTERY PARAMETERS				
Type	Valve-regulated, non-spillable, lead acid			
Recharge Time	5 hours to 90% of rated capacity, after full discharge into resistive load			
BATTERY BACKUP TIME				
Full Load	5 minutes			
Half Load	> 10 minutes. 13-14 minutes typical			
ENVIRONMENTAL				
Operating Temperature, °F (°C)	32 to 104 (0 to 40)			
Storage Temperature, °F (°C)	5 to 104 (-15 to 40)			
Relative Humidity	0% to 90%, non-condensing			
Operating Altitude	Up to 3000m (10,000ft) at 35°C (95°F) without derating			
Audible Noise	<40 dBA, internal fan(s) Off, <45 dBA, internal fan(s) On			

AGENCY	
Safety	UL 1778, c-UL Listed
Emissions	FCC Part 15, Class A
Network Surge	UL 497 B
Transportation	ISTA Procedure 1A Certification
RAIL KIT (INCLUDED)	
Rail Kit	RAILKITPS3G-AEC

NEC limits the input current rating of the 2200VA model to 80% of the input plug's rating. If 1920 or more is required, contact a certified electrician to change the input plug to 30A plug. Vertiv™ assumes no liability for damage caused by miswiring or misapplication of the input plug.

Battery cabinet specifications

Model Number	PSRT3-24VBXR	PSRT3-48VBXR
Used w/UPS Model	PS1000RT3-120XR, PS1500RT3-120XR	PS2200RT3-120XR, PS3000RT3-120XR
DIMENSIONS, W X D X H, IN (MM)		
Unit	17.3 x 19.3 x 3.5 (440 x 490.5 x 88)	
Shipping	22 x 26.6 x 9 (560 x 675 x 228)	
WEIGHT, LB (KG)		
Unit	64 (29)	
Shipping	73 (33)	
BATTERIES		
Type	Valve-regulated, nonspillable, lead acid	
Manufacturer	CSB, YUASA or Equivalent	
ENVIRONMENTAL		
Operating Temperature, °F (°C)	32 to 104 (0 to 40)	
Storage Temperature, °F (°C)	5 to 104 (-15 to 40)	
Relative Humidity	0% to 90%, non-condensing	
Maximum Operating Altitude	10,000 ft. (3000m) at 95°F (35°C) without derating	
AGENCY		
Safety	UL 1778, c-UL Listed	
Emissions	FCC Part 15, Class A	
Transportation	ISTA Procedure 1A Certification	

Vertiv™ Liebert®

PSI5 UPS

High Performance Line
Interactive UPS for Critical
Network Power Protection

Vertiv™ Liebert® PSI5 UPS

Liebert PSI5 is a compact, Automatic Voltage Regulation (AVR) line-interactive UPS system designed especially for IT applications such as network closets and small data centers.

The Liebert PSI5 UPS supports advanced pure sine wave output on battery to safeguard critical IT equipment and business electronics. It also provides reliable power protection for servers, critical nodes, network workstations, large network peripherals, network routers, bridges, and other electronic equipment. With 3 different form-factors available, the Liebert PSI5 has been designed to ensure power continuity for a wide array of applicaitons

Ideally suited for

- Servers
- Network Closets
- Safety and Security systems
- Network Workstations
- Large Network Peripherals
- Storage
- VoIP
- Media Closet Equipment
- POS Systems

2U Rack/Tower
(800VA - 5000VA)

- Convertible rack/tower design with rotatable LCD display provides flexible installation options
- Extended runtime capability with external battery cabinets for hours of back-up time
- Vertiv Intellislot SNMP/Webcards available for remote power management, and environmental sensor support

1U Rack Mount
(1000VA, 1500VA)

- Compact 1U Rack Mount design for applications with limited rack space
- Comes with rack mounting hardware included
- Vertiv Intellislot SNMP/Webcards available for remote power management, and environmental sensor support

Mini Tower
(750VA, 1100VA, 1500VA)

- Compact Mini Tower design for tower servers and/or applications with no available rack
- Plug and play solution requiring no installation
- Vertiv Intellislot SNMP/Webcards available for remote power management, and environmental sensor support

A   RJ-45 Data Line Surge Connectors

B   Extended Runtime Battery Connection

C   USB Port

D   Programmable Outlet Group

E   Input Power Cord

F   Input Circuit Breaker

G   Emergency Power Off (EPO) Connector

H   Liebert IntelliSlot® Port Optional (Communications Card)

I   Output Receptacles
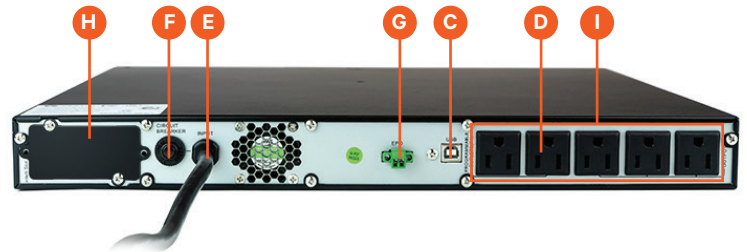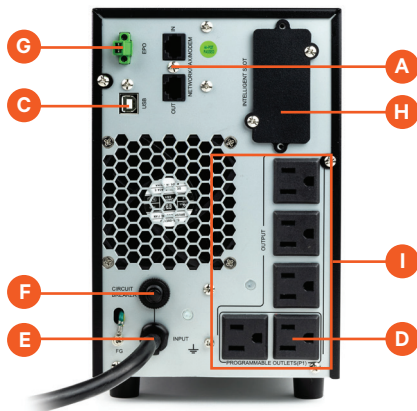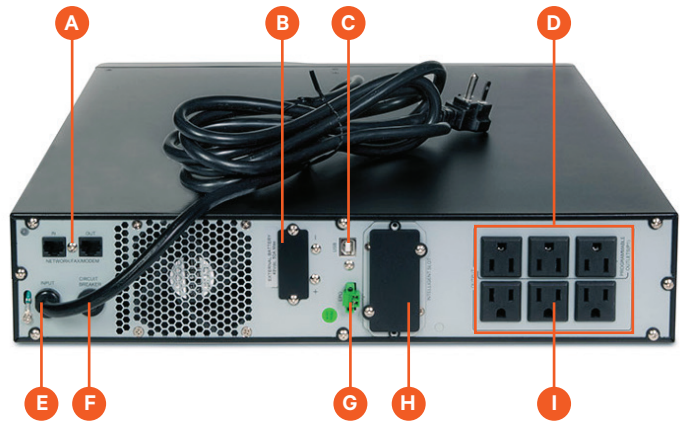
Reliable UPS protection to keep your network up and running

The flexible design of the Liebert® PSI5 allows the UPS to be tower (MT models), 1U rack mountable (1U models), or to be configured as a self-standing tower or to be rack-mounted within a 2U space (RT models). It is available from 750VA to 5000VA with both 120V or 208V models.

The Liebert PSI5 UPS features an innovative advanced line-interactive design incorporating buck/boost Automatic Voltage Regulation (AVR) technology.

This protects against utility voltage fluctuation by raising and lowering utility power to the level needed by the connected equipment. It also allows the UPS to prolong battery life by maximizing its time on utility power before going to battery.

With high efficiency and 0.9 power factor operation, the Liebert PSI5 will meet your critical application needs. You can rest assured that your business is protected with this Vertiv solution, which includes a standard, two-year advanced exchange product warranty.

What's In The Box

- UPS Unit

- USB Type A to USB Type B cable 1.8 meter (6ft) in length

- Printed quick start guide with safety instructions

- Adjustable 4 post rack mounting kit (not included with Mini Tower)

- Support base for tower configuration (2U Rack/Tower Models Only)

- Power Insight Management software (free download from Vertiv.com)

Vertiv™ Liebert® PSI5 UPS

High Availability

0.9 Output Power Factor: More usable power enables more connected loads saving space and costs

Wider Input Voltage Window: Prolongs battery life by allowing the UPS to maximize the use of utility power before transfering to battery when input exceeds specified limits (76 to 146 VAC @120V)

Full Sequenced Battery Testing: The Liebert® PSI5 UPS includes an automatic and manual self-diagnostic test feature. This provides a comprehensive analysis of the condition of the batteries within the UPS and will notify you when the internal batteries need to be replaced.

Advance Early Warning of UPS System Status: The Liebert PSI5 UPS offers multiple audible and visual alarms to immediately alert you to an input voltage fluctuation (buck/boost), output overload, low battery or replace battery condition.

Flexibility

Up to Seven Battery-Backed Outlets: Allows the Liebert PSI5 to be more flexible in accommodating additional equipment to be connected to the UPS via the receptacles.

Configurable Input Voltage Window: Allows the UPS to be properly matched to the incoming utility power and adjusts its input window and transfer points to supply regulated power to connected loads within the selected range.

Programmable Outlet Group: Power cycle connected equipment and load shed on battery to extend run time.

Hot Swappable Batteries: Increase product life and provide prolonged UPS reliability. Batteries are conveniently located behind the front bezel of the unit (RT models) or from the bottom (tower models).

Manageability

USB Communications: 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. *Trellis™* Power Insight Shutdown Software is available at Vertiv.com.

SNMP Communication Option: Add an optional Liebert® IntelliSlot® IS-UNITY communications card to enable SNMP and web-based management for the Liebert PSI5 UPS. The Liebert IntelliSlot UNITY communication cards provide network integration connectivity and allow you to monitor and control your UPS from your network management station or any PC.

- Sends both SNMP traps and emails for event notification
- Auto-senses 10M/100M Ethernet
- Compatible with shutdown software to ensure graceful computer shutdown
- IS-UNITY-DP Communications Card also support Vertiv Liebert SN Series, Environmental Sensors
- Allows remote monitoring, start-up or restart for connected equipment.
- Select models include factory integrated network management card

Remote Emergency Power Off: Allows the UPS to be remotely shut down during an emergency.

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 ensures continuous uptime. It allows you to manually transfer connected equipment to utility power 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

MicroPOD - Maintenance bypass and output distribution

The Liebert® MicroPOD (Power Output Distribution) is a maintenance bypass option for UPS products, 3 kVA and below. It allows removal of the UPS without powering down the connected equipment. The 2U POD's can be installed on the floor or mounted to a Liebert PSI5 using the included mounting brackets.

UPS VA rating	POD model number	Output receptacles	Plug to utility
500-1500VA UPS	MP2-115HW	Hard Wired	Hardwired
	MP2-115A	8 x 5-15R	5-15P
2000VA UPS	MP2-120HW	Hard Wired	Hardwired
	MP2-120C	8 x 5-15/20R	5-20P
	MP2-120E	4 x 5-15/20R; 1 x L5-20R	5-20P
3000VA UPS	MP2-130HW	Hard Wired	Hardwired
	MP2-130C	8 x 5-15/20R	L5-30P
	MP2-130E	2 x 5-15/20R; 1 x L5-30R; 4 x 5-15/20R	L5-30P
	MP2-130P	4 x 5-15R; 2 x L5-20R	L5-30P

UPS Specifications for 2U Rack/Tower Models

Standard Models*	PSI5-800RT120	PSI5-1100RT120	PSI5-1500RT120	PSI5-2200RT120	PSI5-3000RT120	PSI5-5000RT208
Power Rating, VA/W	800VA/720W	1100VA/990W	1500VA/1350W	1920VA/1920W	2880VA/2700W	4250VA/3825W
Dimensions, W X D X H, IN (MM)						
Unit	17.2 x 16.1 x 3.5 (438 x 410 x 88)	17.2 x 16.1 x 3.5 (438 x 410 x 88)	17.2 x 20 x 3.5 (438 x 510 x 88)	17.2 x 24.8 x 3.5 (438 x 630 x 88)	17.2 x 24.8 x 3.5 (438 x 630 x 88)	17.2 x 24.8 x 3.5 (438 x 630 x 88)
Shipping	10.2 x 22.9 x 21.7 (258 x 582 x 550)	10.2 x 22.9 x 21.7 (258 x 582 x 550)	10.2 x 26.5 x 21.7 (258 x 672 x 550)	10.2 x 26.7 x 21.7 (258 x 782 x 550)	10.2 x 26.7 x 21.7 (258 x 782 x 550)	10.2 x 26.7 x 21.7 (258 x 782 x 550)
Weight, LB (KG)						
Unit	28.4 (12.9)	29.5 (13.4)	42.6 (19.3)	59.1 (26.8)	70.8 (32.1)	87.7 (39.8)
Shipping	32.2 (16.9)	37.9 (17.2)	51.8 (23.5)	70.1 (31.8)	81.8 (37.1)	98.8 (44.8)
Input/Output AC Parameters						
Nominal Voltage Setting			100/110/115/120(default) / 125			200/208/220/230/240
Voltage Range Without Battery Operation	75 to 146 VAC	75 to 146 VAC	75 to 146 VAC	75 to 146 VAC	75 to 146 VAC	150 to 281 VAC
Frequency Range			55~65Hz (57~63Hz Battery to Normal comeback)			
Surge Protection	1372J	1372J	1372J	1372J	1372J	2064J
Input Power Cord, 10ft (3m) Attached	NEMA 5-15	NEMA 5-15	NEMA 5-15	NEMA L5-20 std 5-20 adapter included	NEMA L5-30P	NEMA L6-30P
Output Receptacles – Not Controllable	(3) NEMA5-15R	(3) NEMA5-15R	(3) NEMA5-15R	(3) NEMA5-15/20R, (1) NEMAL5-20R	(3) NEMA5-15/20R, (1) NEMAL5-30R	(3) L6-30R
Output Receptacles – Controllable	(3) NEMA5-15R	(3) NEMA5-15R	(3) NEMA5-15R	(3) NEMA5-20R	(3) NEMA5-20R	(1) NEMAL6-30R
Transfer Time			4-6 ms Typical			
Battery Waveform			Pure Sinewave			
Power Rating, VA/W	800VA/720W	1100VA/990W	1500VA/1350W	1920VA/1920W	2880VA/2700W	4250VA/3825W
Battery Parameters						
Type			Valve-regulated lead-acid (VRLA) in compliance with UL 1989			
Recharge Time			4 hours to recover 90%			
Internal Battery Run Time						
Full Load	5.5 min	4.5 min	6.0 min	5.0 min	5.5 min	3.0 min
Half Load	16.0 min	13.5 min	18.0 min	14.0 min	16.0 min	10.0 min
Environmental						
Operating Temperature, °F (°C)			32° to 104° (0° to 40°)			
Storage Temperature °F (°C)			5° to 120° (-15° to 50°)			
Relative Humidity			20% – 90%, non-condensing			
Operating Altitude			0 to 9,942 (0 to 3,000) without derating. Operating temperature reduced 9 °F (5 °C) for each additional 1,640ft (500m) of altitude.			
Audible Noise	< 45 dB	< 45 dB	< 45 dB@line mode < 55 dB@battery mode	< 45 dB@line mode < 55 dB@battery mode	< 45 dB@line mode < 55 dB@battery mode	< 45 dB@line mode < 55 dB@battery mode
Agency						
Safety			UL 1778, c-UL-us Listed			
Emissions			FCC Part 15, Class B			
Network Surge			UL 497 B			
Transportation			*ISTA Procedure 1A Certification*			
Protection Plan						
Equipment Protection Plan			$400,000			

* PSI5 2U Rack/Tower UPS + IS-UNITY-SNMP card bundles available - Add an "N" to the end of the model number. Available through select distributors.

Vertiv™ Liebert® PSI5 UPS

Specifications for 1U Rack Mount & Mini Tower Models

Standard Models	PSI5-1000RM1201U	PSI5-1500RM1201U	PSI5-750MT120	PSI5-1100MT120	PSI5-1500MT120
Power Rating, VA/W	1000VA, 900W	1440VA, 1350W	750 VA, 675W	1100 VA, 990W	1440 VA, 1350W
Dimensions, W X D X H, IN (MM)					
Unit	17.2 x 20.1 x 1.7 (438 x 511 x 44)	17.2 x 24.8 x 1.7 (438 x 631 x 44)	5.7 x 14.8 x 8.7 (145 x 376 x 220)	5.7 x 14.8 x 8.7 (145 x 376 x 220)	5.7 x 19.1 x 8.7 (145 x 484 x 220)
Shipping	22.1 x 23.4 x 5.5 (560 x 595 x 140)	23.4 x 27.8 x 5.5 (595 x 710 x 140)	9.1 x 17.7 x 12.8 (230 x 450 x 325)	9.1 x 17.7 x 12.8 (230 x 450 x 325)	9.1 x 22.4 x 12.8 (230 x 570 x 325)
Weight, LB (KG)					
Unit	36.4 (16.5)	45.6 (20.7)	24.7 (11.2)	26.0 (11.8)	40.1 (18.2)
Shipping	40.8 (18.5)	51.1 (23.2)	27.8 (12.6)	29.1 (13.2)	44.1 (20.0)
Nominal Voltage Setting			100 / 110 / 115 / 120 / 125 VAC		
Input/Output AC Parameters					
Voltage Input Range (with battery operation)			0-150VAC		
Voltage Input Range (without battery operation)			75-146VAC		
Input Voltage Measurement Tolerance			3%		
High Line Buck to Battery			117 / 129/ 135 / 140 / 146 VAC		
Standard Models					
Power Rating, VA/W	1000VA, 900W	1440VA, 1350W	750 VA, 675W	1100 VA, 990W	1440 VA, 1350W
Frequency Input Range			55-65 Hz (57-63 Hz Battery to Normal comeback)		
Internal Rear-panel Input Breaker Rating	13A	16A	10A	13A	16A
Input Surge Protection			ANSI C62.41, Category A, Level 3 1372 J		
Input Power Cord			NEMA 5-15P, offset 90-degree type (3 m attached)		
Output Voltages (on battery)			100 / 110 / 115 / 120 / 125 VAC(±1.5 on battery before alarm) user selectable (120 VAC is factory default)		
Output Frequency (on battery)			60 Hz ±1%		
Output Receptacles - not controllable			(3) NEMA 5-15R		
Output Receptacles - controllable		(2) NEMA 5-15R			(3) NEMA 5-15R
Transfer Time		Adjustable with User Setting 09 ST1: 4-6ms typical, 10ms max (default) ST2: 4-6ms Typical, 11ms max ST3: 8-10ms typical, 13ms max			
Battery Waveform			Pure Sinewave		
Output Overload Operation		100%- alarm warning 110% - alarm warning and shutdown after 10 seconds 120%- alarm warning and immediate shutdown			
Protection			Electronic (over current, short circuit w/ latching shutdown)		
AC-mode Efficiency		98%		96%	
Buck- and Boost-mode Efficiency			93%		
Type			Valve-regulated lead-acid (VRLA) in compliance with UL 1989		
Recharge Time		6 hours to recover 90%		6-8 hours to recover 90%	
Quantity x Voltage x Ah	4 x 6V x 9Ah	6 x 6V x 9Ah	2 x 12V x 9Ah	2 x 12V x 10Ah	2 x 12V x 9Ah
Environmental					
Operating Temperature, ° F (° C)			32-104 (0-40)		
Storage Temperature ˚F (˚C)			-5- 122 (-15- 50)		
Relative Humidity			20% to 90% non-condensing		
Operating Altitude		0 - 9,942 (0 -3,000) without derating Operating temperature reduced 9° F (5° C) for each additional 1,640 ft (500 m) of altitude.			
Audible Noise			< 45dB		< 45dB@line mode <55dB@battery mode
Agency					
Safety			UL 1778, c-UL-us Listed		
Emissions			FCC Part 15, Class B		
Network Surge			UL 497 B		
Transportation			*ISTA Procedure 1A Certification*		
Protection Plan					
Equipment Protection Plan			$400,000		

Accessories and Options

Replacement Internal Battery Kits

Part Number	Applicable To	Shipping Weight lbs.
PSI5-800BATKIT	PSI5-800RT120	13.6
PSI5-1100BATKIT	PSI5-1100RT120	14.1
PSI5-1500BATKIT	PSI5-1500RT120	25.5
PSI5-2200BATKIT	PSI5-2200RT120	37.8
PSI5-3000BATKIT	PSI5-3000RT120	38.8
PSI5-5000BATKIT	PSI5-5000RT208	41

External Battery Cabinets

Part Number	Applicable To	Shipping Weight lbs.
PSI5-24VBATT	PSI5-800RT120, PSI5-1100RT120	51.8
PSI5-48VBATT	PSI5-1500RT120	70.3
PSI5-72VBATT	PSI5-2200RT120 PSI5-3000RT120 PSI5-5000RT208	96.1

Note: Runtimes with EBC are shown on page 11

Extended Battery Cabinet Interconnect Cable

Part Number	Applicable To	Shipping Weight lbs.
PSI5-24VCBL1	PSI5-24VCBL1	1.56
PSI5-24CBL6	PSI5-24VCBL6	2.8
PSI5-48VCBL1	PSI5-48VCBL1	1.56
PSI5-48VCBL6	PSI5-48VCBL6	2.8
PSI5-72VCBL1	PSI5-72VCBL1	1.56
PSI5-72VCBL6	PSI5-72VCBL6	2.8

Mounting Kit Options
These mounting kits are only applicable to 2U Rack/Tower Products

Application	Model Supported	Style	Part Number	Description
2 Post-Telecom rack	PSI5 2U UPS family up to 5kVA	Bracket	2POSTRMKIT	Flexible installation capability on typical 2 post network equipment racks. Securely mount the UPS into a typical 3-6" rail width solution
		Shelf	RS500	Flush-mount shelf for 19" rack wide
		Shelf	RS600	Center-mount shelf for 19" rack wide
		Shelf	RS700	Flush-mount shelf for 23" rack wide
		Shelf	RS800	Center-mount shelf for 23" rack wide

Note: RS600 and RS800 kits include adapter brackets for installation of up to (2) Liebert PSI5 2U model

Step Down Transformer Options (Only for use with PSI5-5000RT208)

Part Number	Description
TDU-6000RTL630	6000VA, 208/120VAC Step-down transformer with L6-30P Input with 8 x NEMA 5-15/20 and 2 x L5-30R
TDU-4000RTL630	4000VA, 208/120VAC Step-down transformer with L6-30P Input with 8 x NEMA 5-15/20 and 2 x L5-20R

Network Communication Cards and environmental sensors
Optional Intellislot cards are compatible with all Liebert PSI5 UPS systems

Network Communications	IS-UNITY-SNMP	10/100 Mbit Ethernet SNMP, Device Web Page, with MIB and configuration cable
	IS-UNITY-DP	Same as IS-UNITY-SNMP plus SN series environmental sensor support
	IS-RELAY	Intellislot Interface Kit for Relay Contacts
Environmental Sensors	SN-Z01	Integrated cable with single temperature sensor
	SN-Z02	Integrated cable with three temperature sensors
	SN-Z03	Integrated cable with three temperature and one humidity sensors
	SN-T	Modular with single temperature sensor
	SN-TH	Modular with single temperature and single humidity sensor
	SN-2D	Modular with two door contact inputs
	SN-3C	Modular with three dry contact inputs
	SN-L20	Modular leak zone sensor with 20 foot cable (Liebert RDU-S only)
UPS manageability options	*Trellis*™ Power Insight Software Management	*Trellis*™ Power Insight is a complimentary web-based software designed to monitor up to 100 Vertiv™ UPSs and rPDUs

Liebert® PSI5 UPS - Power Assurance Services

Power Assurance Package

| Bundled Start-up Service AND 5-Year On-site Emergency Response	Standard	With LIFE Services	With Removal	With LIFE and Removal
Equipment Model / Type	Part Number	Part Number	Part Number	Part Number
Liebert PSI5 UP TO 3KVA	PAPPSI-1K3K	PAPPSI-1K3KLF	PAPPSI-1K3KRMV	PAPPSI-1K3KRLF
PSI5 5KVA	PAPPSI-5K	PAPPSI-5KLF	PAPPSI-5KRMV	PAPPSI-5KRLF
Liebert PSI5 EXTERNAL BATTERY CABINETS	PAPPSI-BATT	-----	PAPPSI-BATTRMV	

Power Start-up Services

Startup service Only	Standard	With Removal
Equipment Model / Type	Part Number	Part Number
Liebert PSI5 UP TO 3KVA	SUPSI-1K3K	SUPSI-1K3KRMV
PSI5 5KVA	SUPSI-5K	SUPSI-5KRMV
Liebert PSI5 EXTERNAL BATTERY CABINETS	SUPSI-EXTBTCB	SUPSIEXTBTCBRMV

Power Emergency Services

5-Year On-site Emergency Coverage - Only	Standard	With LIFE Services
Equipment Model / Type	Part Number	Part Number
Liebert PSI5 750 and 800VA	PEPPSI-8005Y	PEPPSI-8005Y
Liebert PSI5 1000 and 1100VA	PEPPSI-11005Y	PEPPSI-11005Y
Liebert PSI5 1500VA	PEPPSI-15005Y	PEPPSI-15005Y
Liebert PSI5 2200VA	PEPPSI-22005Y	PEPPSI-22005Y
Liebert PSI5 3000VA	PEPPSI-30005Y	PEPPSI-30005Y
Liebert PSI5 5000VA	PEPPSI-5K5Y	PEPPSI-5K5Y
Liebert PSI5 24VBATT EXT BATT CABINET	PEPPSI-24VBATT	PEPPSI-24VBATT
Liebert PSI5 48VBATT EXT BATT CABINET	PEPPSI-48VBATT	PEPPSI-48VBATT
Liebert PSI5 72VBATT EXT BATT CABINET	PEPPSI-72VBATT	PEPPSI-72VBATT

Power Assurance Package - Summary
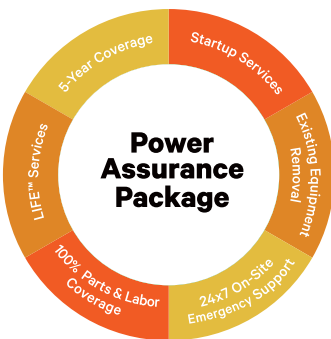
- Includes all below "Power Start-up Services" and "Power Emergency Services" support
- One Preventative Maintenance visit after 3rd year (5kVA UPS only)

Power Startup Services - Summary

- Installation includes mounting and start-up of new UPS or EBC (excludes hard-wired applications)
- Services performed by Vertiv factory trained technician
- Services performed 7 X 24, excluding national holidays within the 48 contiguous states and Hawaii
- Removal and disposal of existing UPS or EBC equipment, if selected

Power Emergency Services - Summary

- On Site Service Support
- Full-service five (5) year contract term commencing upon the start-up date
- 100% parts coverage, including internal batteries, POD and web card
- 100% labor and travel coverage 7 days/week, 24 hours/day
- 24-Hour Customer Resolution Center via 1-800-LIEBERT
- Access to Customer Services Network portal

LIFE™ Services includes above plus:

- Continuous Monitoring, Expert Analysis, and Proactive Response

Note: LIFE Services requires an UNITY card.

Please refer to the Scopes of Work for full and additional details.

PSI5 Extended Warranty (800-5000 Va; 120 Vac & 208 Vac)

UPS Model Number	Warranty Extension List Pice	
	Additional 1 Year	Additional 3 Years
	Warranty Part Number	Warranty Part Number
2U Rack/Tower UPS Models		
PSI5-800RT120	1WEPSI5-800	3WEPSI5-800
PSI5-1100RT120	1WEPSI5-1100	3WEPSI5-1100
PSI5-1500RT120	1WEPSI5-1500	3WEPSI5-1500
PSI5-2200RT120	1WEPSI5-2200	3WEPSI5-2200
PSI5-3000RT120	1WEPSI5-3000	3WEPSI5-3000
PSI5-5000RT208	1WEPSI5-5000	3WEPSI5-5000
Mini Tower UPS Models		
PSI5-750MT120	1WEPSI5-750	3WEPSI5-750
PSI5-1100MT120	1WEPSI5-1100	3WEPSI5-1100
PSI5-1500MT120	1WEPSI5-1500	3WEPSI5-1500
1U Rack Mount UPS Models		
PSI5-1000RM1201U	1WEPSI5-1000	3WEPSI5-1000
PSI5-1500RM1201U	1WEPSI5-1500	3WEPSI5-1500
External Battery Cabinets		
PSI5-24VBATT	1WEPSI5-24VBATT	3WEPSI5-24VBATT
PSI5-48VBATT	1WEPSI5-48VBATT	3WEPSI5-48VBATT
PSI5-72VBATT	1WEPSI5-72VBATT	3WEPSI5-72VBATT

Note: Extended warranties can only be ordered when ordering the UPS and prior to shipment.

2U Rack/Tower UPS Runtime Tables

PSI5-800RT120

Load			Number Of External Battery Cabinets (EBCs)						
			Internal Battery Only	1	2	3	4	5	6
%	VA	W	Minutes						
100	800	720	5.5	22	45	70	97	125	154
75	600	540	8.5	30	60	93	129	165	202
50	400	360	16.0	53	107	166	226	287	350
25	200	180	33.0	109	215	326	438	551	665
10	80	72	85.5	285	539	796	1053	1311	1569

PSI5-1100RT120

Load			Number of EBCs						
			Internal Battery Only	1	2	3	4	5	6
%	VA	W	Minutes						
100	1100	990	4.5	17	45	68	92	118	144
75	825	743	8.0	24	65	98	133	168	205
50	550	495	13.5	44	107	160	215	272	328
25	275	248	30.0	91	219	321	426	531	636
10	110	99	87.0	244	534	768	1003	1238	1473

Right table (PSI5-1100RT120 continued):

Load			Number of EBCs					
			2	3	4	5	6
%	VA	W					
100	880	792	45	68	92	118	144
75	660	594	65	98	133	168	205
50	440	396	107	160	215	272	328
25	220	198	219	321	426	531	636
10	88	79	534	768	1003	1238	1473

PSI5-1500RT120

Load			Number Of External Battery Cabinets (EBCs)						
			Internal Battery Only	1	2	3	4	5	6
%	VA	W	Minutes						
100	1500	1350	6.0	24	50	78	107	138	169
75	1125	1013	9.5	33	66	102	141	181	222
50	750	675	18.0	59	119	183	249	316	383
25	375	337.5	37.0	122	240	363	486	611	736
10	150	135	110.5	330	619	911	1203	1496	1790

PSI5-2200RT120

Load			Number of EBCs	
			Internal Battery Only	1
%	VA	W	Minutes	
100	1920	1920	5.0	27
75	1440	1440	7.5	40
50	960	960	14.0	66
25	480	480	31.5	137
10	192	192	88.0	358

Load			Number of EBCs				
			2	3	4	5	6
%	VA	W					
100	1536	1536	72	111	152	194	237
75	1152	1152	104	159	216	274	333
50	768	768	170	257	346	435	525
25	384	384	336	497	661	824	989
10	153.6	154	835	1213	1592	1971	2350

PSI5-3000RT120

Load			Number of EBCs	
			Internal Battery Only	1
%	VA	W	Minutes	
100	3000	2700	5.5	20
75	2250	2025	8.5	27
50	1500	1350	16.0	50
25	750	675	34.0	102
10	300	270	103.0	282

Load			Number of EBCs				
			2	3	4	5	6
%	VA	W					
100	2400	2160	52	78	106	134	164
75	1800	1620	74	112	151	191	232
50	1200	1080	122	182	244	306	370
25	600	540	244	358	473	589	705
10	240	216	619	887	1156	1425	1695

PSI5-5000RT208 @ 208V NOMINAL

Load			Number of EBCs	
			Internal Battery Only	1
%	VA	W	Minutes	
100	4250	3825	3	15
75	3188	2869	4	20
50	2125	1913	10	36
25	1063	956	26	82
10	425	383	69	215

Load			Number of EBCs				
			2	3	4	5	6
%	VA	W					
100	4000	3600	30	44	60	76	92
75	3000	2700	43	63	85	108	131
50	2000	1800	70	104	139	175	212
25	1000	900	156	228	301	375	449
10	400	360	358	511	665	819	974

PSI5-5000RT208

Load			Number of EBCs	
			Internal Battery Only	1
%	VA	W	Minutes	
100	5000	4500	3	15
75	3750	3375	4	20
50	2500	2250	10	36
25	1250	1125	26	82
10	500	450	69	215

Load			Number of EBCs				
			2	3	4	5	6
%	VA	W					
100	4000	3600	30	44	60	76	92
75	3000	2700	43	63	85	108	131
50	2000	1800	70	104	139	175	212
25	1000	900	156	228	301	375	449
10	400	360	358	511	665	819	974

1U Rack Mount UPS Runtime Tables

PSI5-1000RM1201U

Load			
%	VA	W	Minutes
100	1000	900	5
75	750	675	8
50	500	450	13
25	250	225	34
10	100	90	91

PSI5-1500RM1201U

Load			
%	VA	W	Minutes
100	1500	1350	5
75	1125	1013	8
50	750	675	14
25	375	338	34
10	150	135	91

Mini Tower UPS Runtime Tables

PSI5-1100MT120

Load			
%	VA	W	Minutes
100	1100	990	5
75	825	743	8
50	550	495	14
25	275	248	37
10	110	99	107

PSI5-1500MT120

Load			
%	VA	W	Minutes
100	1500	1350	6
75	1125	1013	10
50	750	675	18
25	375	338	42
10	150	135	111

PSI5-750MT120

Load			
%	VA	W	Minutes
100	750	675	6
75	563	506	10
50	375	338	18
25	188	169	41
10	75	68	93

LIEBERT® PSA™ LINE-INTERACTIVE UPS

Performance Power Protection For PC's And Office Equipment

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Liebert® PSA™ UPS Supports Your Sensitive Electronics With These Standard Features:

Flexibility:

- Available sizes are: 500, 650, 800, 1000, 1350, 1500VA; 120VAC, 500, 650, 1000, 1500VA; 230VAC

- Three or six battery-backed UPS outlets, depending on model size

- One or two surge-only outlets, differentiated by color

- USB communications/shutdown software and cable included

- User replaceable batteries

Reliability:

- 2 to 5 minutes battery backup time at full rated load, depending upon model

- Automatic battery testing to ensure batteries are available when needed

- Advance early warning of UPS shutdown

- Lightning and surge protection (TVSS)

- RJ-45 port for data line surge protection

- Site wiring fault indicator

Lowest Total Cost Of Ownership:

- Two-Year no hassle, advanced replacement warranty

The Liebert PSA is an economical line-interactive UPS that offers full-featured power protection for small office computers and electronic equipment. Liebert PSA offers unique features and extraordinary performance not normally found in similar products in this price range.

Designed with simple controls for easy operation, the Liebert PSA provides two to five minutes of back-up time at full load...more than enough time to save work in process and shut down your connected equipment. USB shutdown software and a USB cable are also included, to allow remote alerts and automated graceful shutdown of the connected systems.

The Liebert PSA is ideally suited for:

- Professional Desktop PC's

- Professional Workstations

- Small Routers, Bridges And Hubs

- Point-of-Sale Terminals
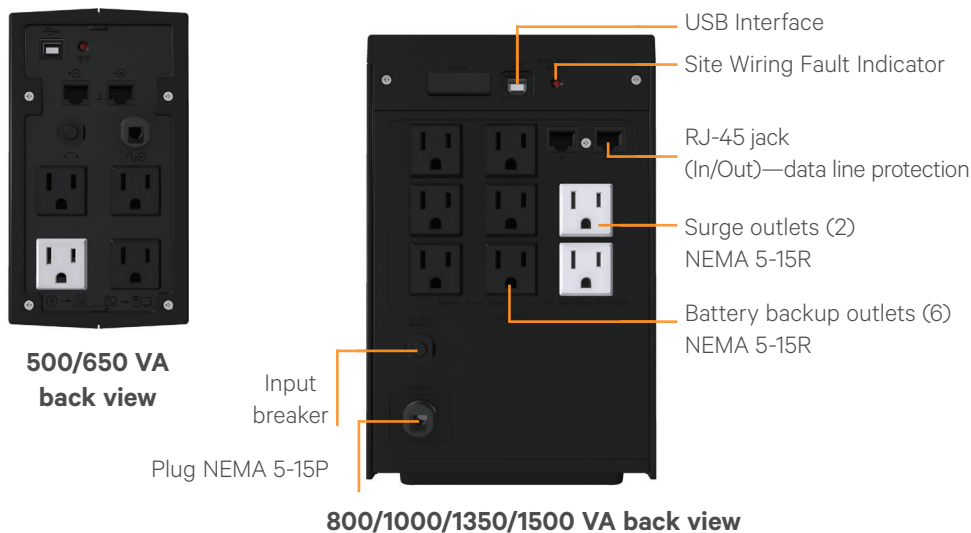
- Other Sensitive Electronics

VERTIV

Liebert® PSA Specifications

MODEL NUMBER	PSA500MT3-120U	PSA650MT3-120U	PSA800MT3-120U	PSA1000MT3-120U	PSA1350MT3-120U	PSA1500MT3-120U
Capacity VA/W	500 / 300	650 / 390	800/480	1000 / 600	1350/810	1500 / 900
Net Weight: lbs (kg)	14.1 (6.4)	14.6 (6.6)	23.8 (10.8)	23.8 (10.8)	27.8 (12.6)	27.8 (12.6)
Shipping Weight: lbs (kg)	15.9 (7.2)	16.3 (7.4)	26.0 (11.8)	26.0 (11.8)	30.0 (13.6)	30.0 (13.6)
Dimensions: W x D x H, in. (mm)	3.7 x 14 x 6.7 (95 x 356 x 171)	3.7 x 14 x 6.7 (95 x 356 x 171)	5.8 x 14.2 x 9.2 (147 x 360 x 234)	5.8 x 14.2 x 9.2 (147 x 360 x 234)	5.8 x 14.2 x 9.2 (147 x 360 x 234)	5.8 x 14.2 x 9.2 (147 x 360 x 234)
On-Line Input Voltage	84-140VAC					
On-Line Frequency	50/60Hz ±5Hz					
Output Voltage (Utility Power Normal)	Typical 97-129VAC					
Output Voltage (Battery Operation)	120VAC ±5%					
On-Battery Wave Form	Stepped Sinewave					
Typical Recharge Time	6-8 hours to 90%					
Battery Run Time* - Full Load - Half Load	3 minutes 11 minutes	2 minutes 8 minutes	5 minutes 16 minutes	3 minutes 11 minutes	3 minutes 11 minutes	3 minutes 10 minutes
Audible and Visual	Audible alarm / LED					
Backup Outlets	NEMA 5-15R (3)	NEMA 5-15R (3)	NEMA 5-15R (6)	NEMA 5-15R (6)	NEMA 5-15R (6)	NEMA 5-15R (6)
Surge Outlets	NEMA 5-15R (1)	NEMA 5-15R (1)	NEMA 5-15R (2)	NEMA 5-15R (2)	NEMA 5-15R (2)	NEMA 5-15R (2)
Operating Temperature, ˚F (˚C)	32 to 104 (0 to 40)					
Storage Temperature, ˚F (˚C)	5 to 104 (-15 to 40)					
Operating / Storage Relative Humidity	0%-90%, non-condensing					
EMI Classification	FCC Part 15 Class B					
AGENCY						
Safety	UL 1778 c-UL Listed					
Transportation	ISTA Procedure 1A Certification					

*Battery run time may vary depending on load

500/650 VA back view

800/1000/1350/1500 VA back view

USB Interface

Site Wiring Fault Indicator

RJ-45 jack (In/Out)—data line protection

Surge outlets (2) NEMA 5-15R

Battery backup outlets (6) NEMA 5-15R

Input breaker

Plug NEMA 5-15P

Communications/Shutdown Software:

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 USB shutdownand monitoring software is provided.

LIEBERT® ITON 400 ВА - 2000 ВА

Надежная система защиты электропитания для настольных рабочих станций

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Liebert® itON - это надежный линейно-интерактивный ИБП, разработанный для защиты настольных компьютеров и автономного ИТ-оборудования

Liebert itON поставляется в комплекте с автоматическим регулятором напряжения (АРН), что обеспечивает гибкость и надежность для ПК и другого чувствительного электронного оборудования. Обладая компактной конструкцией и будучи простым в управлении, Liebert itON обеспечивает также достаточное время автономной работы и позволяет безопасно сохранить текущую работу перед отключением системы. Для улучшения доступности и непрерывности работы, ИБП Liebert itON также оснащен функциями автоматического перезапуска и холодного запуска.

Особенности:

- автоматический регулятор напряжения (АРН)
- компактный размер
- небольшой вес
- простота в эксплуатации.

Высокая надежность:

- защита от перегрузок и подача аварийных сигналов
- автоматический перезапуск устройства при восстановлении напряжения в электросети
- быстрая зарядка
- функция холодного запуска.

Гибкость:

- доступны модели с номинальным значением электрической мощности от 400 до 2000 ВА
- порт USB (для моделей 1000 ВА, 1500 ВА, 2000 ВА)
- вилки стандарта CEE 7/4 (для моделей 400 ВА, 600 ВА, 800 ВА)
- вилки стандарта CEE 7/4 и стандарта МЭК (для моделей 1000 ВА, 1500 ВА, 2000 ВА).

Идеально подходит для:

- настольных компьютеров
- профессиональных рабочих станций
- небольших маршрутизаторов, мостов и концентраторов
- кассовых аппаратов
- УАТС
- прочего чувствительного электронного оборудования.

Liebert itON 600 ВА   *Liebert itON 1000 ВА*   *Liebert itON 2000 ВА*

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Технические характеристики

НОМЕР МОДЕЛИ	Liebert iTON 400 BA	Liebert iTON 600 BA	Liebert iTON 800 BA
Номинальная мощность	400 ВА / 240 Вт	600 ВА / 360 Вт	800 ВА / 480 Вт
РАЗМЕРЫ, Ш × Г × В (ММ)			
Устройство отдельно		101 x 279 x 142	
В упаковке		143 x 327x 220	
МАССА (КГ)			
Устройство отдельно	3,6	4,2	4,9
В упаковке	3,9	4,7	5,4
ПАРАМЕТРЫ ПИТАЮЩЕГО ПЕРЕМЕННОГО ТОКА			
Номинальное входное напряжение в сети		220 - 240 В перем. тока	
Частота напряжения сети		50/60 Гц; автоматическое определение	
Входной разъем		Кабель с разъемом стандарта CEE 7/4	
Выходные разъемы		(2) стандарта CEE 7/4	
Напряжение на выходе		230 В перем. тока	
Форма волны (при работе от батарей)		Ступенчатая синусоида	
ПАРАМЕТРЫ БАТАРЕИ			
Тип		Необслуживаемая, свинцово-кислотная, с клапанным регулированием	
Количество × напряжение × емкость	1 x 12 В x 4.5 А·ч	1 x 12 В x 7 А·ч	1 x 12 В x 9 А·ч
Время зарядки		Восстановление до 90 % заряда за 4 часа (станд.)	
УСЛОВИЯ ОКРУЖАЮЩЕЙ СРЕДЫ			
Рабочая температура		от 0 до 40 °C	
Относительная влажность		от 0 до 90 % (без образования конденсата)	
Максимальная высота над уровнем моря		до 1500 м без ухудшения работы	
СТАНДАРТЫ И СЕРТИФИКАТЫ			
Обеспечение безопасности		EN62040-1:2008	
EMC		EN62040-2:2006, класс C2	
Соответствие стандартам		CE	

НОМЕР МОДЕЛИ	Liebert iTON 1000 BA	Liebert iTON 1500 BA	Liebert iTON 2000 BA
Номинальная мощность	1000 ВА / 600 Вт	1500 ВА / 900 Вт	2000 ВА / 1200 Вт
РАЗМЕРЫ, Ш × Г × В (ММ)			
Устройство отдельно	146 x 341 x 164	146 x 391x 205	
В упаковке	200 x 447 x 264	235 x 495 x 297	
МАССА (КГ)			
Устройство отдельно	8,0	11,1	11,5
В упаковке	9,0	12,1	12,5
ПАРАМЕТРЫ ПИТАЮЩЕГО ПЕРЕМЕННОГО ТОКА			
Номинальное входное напряжение в сети		220 - 240 В перем. тока	
Частота напряжения сети		50/60 Гц; автоматическое определение	
Входной разъем	Кабель с разъемом стандарта CEE 7/4	IEC 320-C14	
Выходной разъем	(2) стандарта CEE 7/4 и (2) IEC 320-C13	(3) стандарта CEE 7/4 и (3) IEC 320-C13	
Напряжение на выходе		230 В перем. тока	
Форма волны (при работе от батарей)		Ступенчатая синусоида	
ПАРАМЕТРЫ БАТАРЕИ			
Тип		Необслуживаемая, свинцово-кислотная, с клапанным регулированием	
Количество × напряжение × емкость	2 x 12 В x 7 А·ч	2 x 12 В x 9 А·ч	
Время зарядки		В течение 4—6 часов восстанавливается до 90 % заряда (как правило)	
УСЛОВИЯ ОКРУЖАЮЩЕЙ СРЕДЫ			
Рабочая температура		0°C - 40°C	
Относительная влажность		от 0 до 90 % (без образования конденсата)	
Максимальная высота над уровнем моря		до 1500 м без ухудшения работы	
СТАНДАРТЫ И СЕРТИФИКАТЫ			
Обеспечение безопасности		EN62040-1:2008	
EMC		EN62040-2:2006, класс C2	
Соответствие стандартам		CE	

Примечание: не допускается использование внешних батарейных шкафов. Работа только от внутренних батарей.

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Порт USB

RJ-11 для защиты линий передачи данных
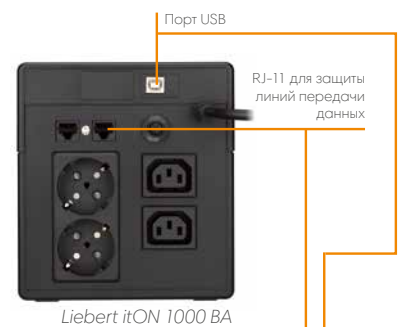
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