

# LIEBERT® PSI™5 UPS

High Performance Rack-Mount/Tower UPS For Network Power Protection



## FEATURES

Liebert® PSI™5 allows you to get more from your UPS and your protected equipment, with features normally found only on more expensive systems:

- Battery backup provides ample time for an orderly shutdown of connected equipment
- Liebert PSI5 UPS operates at a high 0.9 output power factor
- Available network communications card provides remote monitoring and power management capability — Local USB or SNMP via optional Vertiv Liebert UNITY communication card
- Liebert PSI5 UPS is compliant with the Restriction of Hazardous Substances Directive (RoHS)
- Rotatable LCD monitor allows users to view real-time conditions, alarm notices, and runtime information
- The standard Liebert PSI5 UPS can accept external battery cabinets for long runtime application



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.



### Ideally suited for:

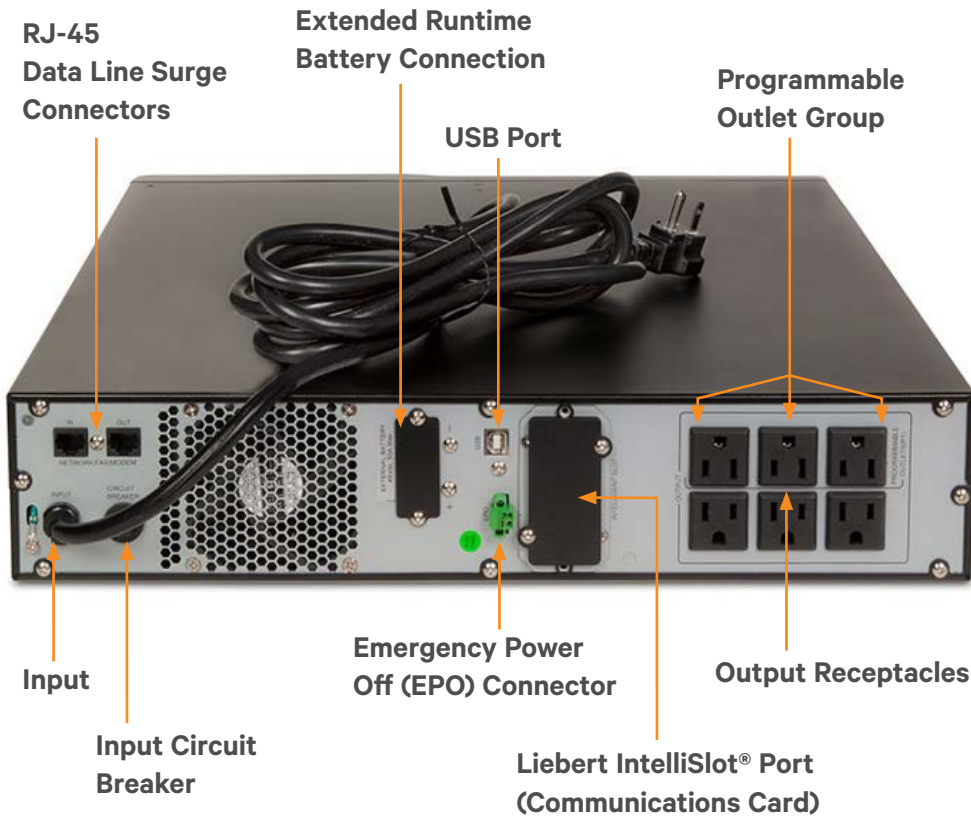
- Servers
- Network Closets
- Safety and Security systems
- Network Workstations
- Large Network Peripherals
- Storage
- VoIP
- Media Closet Equipment
- POS Systems



## Reliable UPS Protection To Keep Your Network Up And Running

The flexible design of the Liebert® PSI™5 allows the UPS to be configured as a self-standing tower or to be rack-mounted within a 2U space. It is available in six capacities 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.



### 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. Includes adjustable 4 post rack mounting kit and support base for tower configuration.

## Liebert PSI5 UPS Standard Features

### 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.

#### Rotatable Display Panel

LCD monitor panel rotates 90° to make the readout of the LCD display easy to see in rack or tower position.

#### Programmable Outlet Group

Power cycle connected equipment and load shed on battery to extend run time.

#### Rack or Tower Configurations

Telescoping rails and tower base included for flexible deployment solutions.

### Higher Availability:

#### 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.

### **Battery Backup Time When Utility Fails**

Provides ample runtime for an orderly shutdown of connected equipment or transfer to generator.

### **Full Sequenced Battery Testing**

The Liebert® PSI™5 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.

### **Surge Protection**

The transient voltage surge suppression (TVSS) circuitry inside the Liebert PSI5 UPS provides protection for the connected equipment from incoming spikes, surges, and other power anomalies present on the incoming utility power source.

### **Data Line Surge Protection**

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

### **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 PSI5 UPS operates at a higher output power factor provides more usable power to connected equipment.

#### **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:**

#### **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 VertivCo.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.

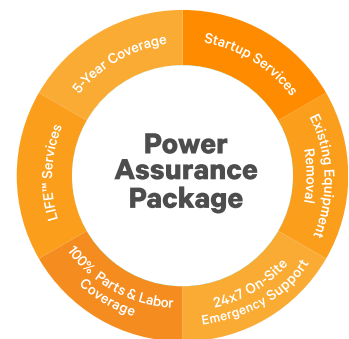
- Sends both SNMP traps and emails for event notification
- Auto-senses 10M/100M Ethernet
- Compatible with shutdown software to ensure graceful computer shutdown
- IS-UNITY-DP Communications Card also support Vertiv Liebert SN Series, Environmental Sensors
- Allows remote monitoring, start-up or restart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

#### **Remote Emergency Power Off**

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

### **Power Assurance Package Provides Comprehensive On-Site Services**

- **Five-year protection plan** with 100% parts coverage and 7x24 emergency service
- **On-site installation and start-up** to provide pain-free site rollout and free you from disposal of your existing UPS
- **On-site service support** to free up time-strapped IT resources
- **Life Services** to deliver remote oversight, analysis, and proactive response for assured uptime



### **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



## Liebert® PSI™5 UPS Specifications

MODEL NUMBER	PSI5-800RT120	PSI5-1100RT120	PSI5-1500RT120	PSI5-2200RT120	PSI5-3000RT120	PSI5-5000RT208
<b>Power Rating, VA/W</b>	800VA/720W	1100VA/990W	1500VA/1350W	1920VA/1920W	2880VA/2700W	4250VA/3825W
<b>DIMENSIONS, W X D X H, IN (MM)</b>						
<b>Unit</b>	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)
<b>Shipping</b>	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)
<b>WEIGHT, LB (KG)</b>						
<b>Unit</b>	28.4 (12.9)	29.5 (13.4)	42.6 (19.3)	59.1 (26.8)	70.8 (32.1)	87.7 (39.8)
<b>Shipping</b>	32.2 (16.9)	37.9 (17.2)	51.8 (23.5)	70.1 (31.8)	81.8 (37.1)	98.8 (44.8)
<b>INPUT/OUTPUT AC PARAMETERS</b>						
<b>Nominal Voltage Setting</b>	100/110/115/120/125	100/110/115/120/125	100/110/115/120/125	100/110/115/120/125	100/110/115/120/125	200/208/220/230/240
<b>Voltage Range Without Battery Operation</b>	75 to 146 VAC	75 to 146 VAC	75 to 146 VAC	75 to 146 VAC	75 to 146 VAC	150 to 281 VAC
<b>Frequency Range</b>	55-65Hz (57-63Hz Battery to Normal comeback)					
<b>Surge Protection</b>	1372J	1372J	1372J	1372J	1372J	2064J
<b>Input Power Cord, 10ft (3m) Attached</b>	NEMA 5-15	NEMA 5-15	NEMA 5-15	NEMA L5-20 std 5-20 adapter included	NEMA L5-30P	NEMA L6-30R
<b>Output Receptacles – Not Controllable</b>	(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
<b>Output Receptacles – Controllable</b>	(3) NEMA5-15R	(3) NEMA5-15R	(3) NEMA5-15R	(3) NEMA5-20R	(3) NEMA5-20R	(1) NEMAL6-30R
<b>Transfer Time</b>	4-6 ms Typical					
<b>Battery Waveform</b>	Pure Sinewave					
<b>BATTERY PARAMETERS</b>						
<b>Type</b>	Valve-regulated lead-acid (VRLA) in compliance with UL 1989					
<b>Recharge Time</b>	4 hours to recover 90%					
<b>INTERNAL BATTERY RUN TIME</b>						
<b>Full Load</b>	3 min	2 min	4 min	4 min	3 min	3 min
<b>Half Load</b>	11 min	10 min	12 min	13 min	12 min	10 min
<b>RUN TIME WITH 1 EXTERNAL BATTERY CABINET</b>						
<b>Full Load</b>	22 min	17 min	24 min	26min	20 min	15 min
<b>Half Load</b>	53 min	44 min	59 min	63 min	50 min	36 min
Allows up to 6 matching External Battery Cabinets. See runtime information available at VertivCo.com.						
<b>ENVIRONMENTAL</b>						
<b>Operating Temperature, °F (°C)</b>	32° to 104° (0° to 40°)					
<b>Storage Temperature °F (°C)</b>	5° to 120° (-15° to 50°)	5° to 120° (-15° to 50°)	5° to 120° (-15° to 50°)	5° to 120° (-15° to 50°)	5° to 120° (-15° to 50°)	5° to 120° (-15° to 50°)
<b>Relative Humidity</b>	20% – 90%, non-condensing					
<b>Operating Altitude</b>	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.					
<b>Audible Noise</b>	< 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
<b>AGENCY</b>						
<b>Safety</b>	UL 1778, c-UL-us Listed					
<b>Emissions</b>	FCC Part 15, Class B					
<b>Network Surge</b>	UL 497 B					
<b>Transportation</b>	ISTA Procedure 1A Certification					

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