



## Vertiv™ Liebert® PSI5 Lithium-Ion UPS

High Performance Line  
Interactive UPS for Critical  
Network Power Protection

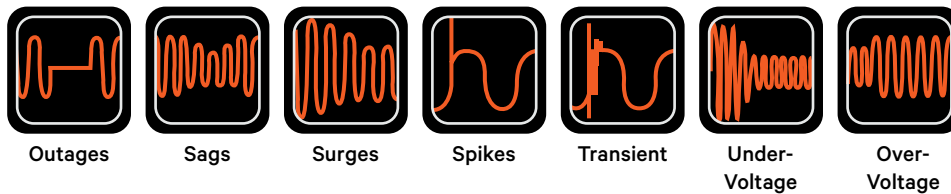


*The Vertiv Liebert PSI5 Lithium UPS combines efficient line-interactive power protection with long-lasting lithium-ion batteries — delivering up to 3x battery life, faster recharge, and lower maintenance than VRLA models. Offering optimized form factors that enhance installation flexibility, it's ideal for edge IT and network closets requiring continuous uptime and lower total cost of ownership.*

## High Performance Line-Interactive Power Protection

The Vertiv™ Liebert® PSI5 Lithium-Ion line-interactive UPS provides power conditioning and reliable battery backup for servers, network gear, and other critical IT equipment. Its line-interactive design corrects common power fluctuations without using the battery, extending battery life and improving efficiency. When outages occur, it seamlessly switches to backup power in less than 6 milliseconds. With a 0.9 power factor, the PSI5 Lithium-Ion UPS ensures your most important business applications remain protected and operational.

### Protects Against



The optimized form factors - including tower, 1U-3U rack/tower, and short-depth chassis - are designed for easy integration into non-standardized and space-constrained environments. Included hardware supports flexible installation needs, making it ideal for edge IT sites. Vertiv lithium-ion batteries reduce maintenance and replacement needs, delivering a lower total cost of ownership over the lifetime of the UPS. This set-it-and-forget-it solution is especially well-suited for remote locations with limited onsite support.

## Vertiv Liebert PSI5 Lithium-Ion Overview

- 500VA - 3000VA UPS models available in tower, or 1U-3U Rack/Tower convertible, including short-depth chassis options
- Standard 5-Year warranty and \$400K equipment protection plan provides peace of mind your investment is protected against potentially costly equipment failures
- Achieve the lowest total cost of ownership over the lifetime of the UPS with fewer battery replacements and up to 10 years of usable life
- Internal batteries offer industry-leading runtime (up to 9 minutes at full load) to protect critical equipment during an unexpected power loss.
- Lithium-Ion battery technology offers better performance in high temperature environments, supports up to 10 times more discharge cycles and delivers faster recharge times compared to VRLA batteries.

## Why should you choose Lithium-Ion Technology?

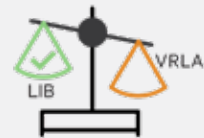
### LONGER LIFE



### LOWEST TCO



### SMALLER AND LIGHTER



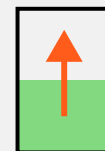
### LONGER RUNTIME



### ENVIRONMENTALLY FRIENDLY



### FAST BATTERY RECHARGE



# Vertiv™ Liebert® PSI5 Lithium-Ion 500 - 3000VA 120V UPS

*Lithium-Ion technology delivers up to 3 times the life expectancy of lead-acid batteries and lowers the total cost of ownership by nearly half.*

## Lithium-Ion Outperforms VRLA when compared...

| Battery Feature               | VRLA Battery | Lithium-Ion Battery | Lithium-Ion Benefit                                                                       |
|-------------------------------|--------------|---------------------|-------------------------------------------------------------------------------------------|
| Standard battery life         | 3-5 years    | 8-10 years          | Up to 3 times longer life                                                                 |
| Typical cycle life            | 200-260      | 2000                | Up to 10x more discharge/recharge cycles                                                  |
| Battery recharge time (@ 90%) | 3-6 hours    | <2 hours            | Fast recovery time safeguards your critical IT equipment in the event of multiple outages |
| Battery weight                | 10.9 kg      | 5.9 kg              | 45% lighter making it ideal for small spaces and wall-mount racks                         |
| Warranty                      | 2 or 3 years | 5 years             | Worry free operation so you can set-it and forget-it                                      |

Visit the TCO calculator at [vertiv.com](https://www.vertiv.com) -> Products & Services -> UPS -> PSI5 Lithium -> Models to calculate the cost savings for your installation.

## Build Your Total Infrastructure Solution with Vertiv

Discover expert designed IT infrastructure solutions with proven success in diverse environments and countless applications.

**Vertiv™ VR Rack**

Self-contained 42U server rack designed to simplify equipment installation and provides an additional 6cm of useable depth.

**Vertiv™ Geist™ rPDU**

Reliable power distribution with outlet level remote monitoring and management providing the highest level of power visibility and control.

**Cable and Air Flow Management**

Included accessories ensure proper cable management and airflow to keep your equipment cool.

**Software and IT Management**

Monitor the entire system either locally or remotely to ensure you are alerted of out-of-range conditions that could result in costly downtime.

**Vertiv™ VRV**

Keep critical IT equipment cool with a dedicated high-efficiency rack-mount cooling system with scalable capacity.

**Vertiv™ Liebert® PSI5 Lithium-Ion UPS**

Protect mission critical equipment in the event of power loss or extreme power fluctuations.

Visit [Vertiv.com](https://www.vertiv.com) or contact a Vertiv Sales Representative today to find out how Vertiv can help you configure an all-in-one infrastructure solution.

## High Performance

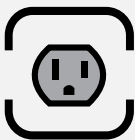


**0.9 (or Better) Output Power Factor (PF):** Provides more usable power enabling you to connect more equipment saving you money and space.



**Increased Runtime:** Internal batteries offer up to 9 minutes of runtime at full load.

**Programmable Outlet Group:** Extend run time when on battery power by power-cycling connected equipment and shedding less critical loads.

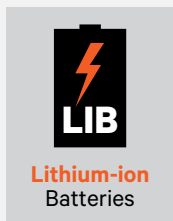


**Battery Backed Outlets:** Up to 10 battery backed outlets ensuring critical equipment is protected.

**Advanced Warning Status:** Receive early audible and visual alarms warning you of system status to alert you to an input voltage, output overload, low battery, or battery replacement condition.

**Wide Input Voltage Range:** Prolong battery life by allowing the UPS to maximize the use of the utility power before transferring to battery.

## Superior Battery Technology



**Fewer Battery Replacements:** Lithium-Ion batteries require fewer battery replacements and last on average up to 3 times as long as traditional VRLA batteries reducing maintenance, labor, and replacement costs (lower TCO).

**More Discharge Cycles:** Lithium-Ion batteries deliver up to 10 times more charge / discharge cycles than VRLA batteries.

**Fast Recharge:** Lithium-Ion batteries recharge twice as fast as traditional VRLA batteries getting you back to 100% in as little as 2 hours.

**Hot-Swappable, User-Replaceable Batteries:** Increase product life and reliability with batteries that can be easily replaced without disrupting power to connected equipment.

**Safe and Reliable:** Safest Lithium-Ion (LiFePO4) battery chemistry and integrated battery management system (BMS) ensure safe and reliable operation.

**Environmentally Friendly:** Significantly reduce battery disposal and recycling with lower replacement rates.

## Enhanced Manageability



**LCD Display:** Intuitive, user-friendly display provides detailed information and configurable options, with a rotatable design for flexible rack or tower installations.

### Free Power Management Software:

- Vertiv™ [Power Insight](#) – Add the Vertiv Intellislot network management card for web/SNMP manageability
- Vertiv™ [Power Assist](#) – Monitor UPS conditions through a local USB connection
- Vertiv™ Intelligence Director – Together with Vertiv™ Geist™ rPDU one single IP Address to monitor and manage up to 50 devices



**Remote Management:** Add an optional Vertiv™ Liebert® IntelliSlot™ RDU120 communication card to enable remote monitoring / management (web based, SNMP, BACnet, MODBUS and relay contacts) and environmental monitoring via external sensors.

**Remote Emergency Power Off:** Remotely shutdown the UPS during an emergency.

# Vertiv™ Liebert® PSI5 Lithium-Ion 1500 - 3000VA 120V UPS

## Vertiv™ Liebert® PSI5 Lithium-Ion Features



### High power factor (0.9)

More usable power enables more connected loads saving space and costs.



### Efficiency (>98%)

Energy Star 2.0 certification. Higher efficiency means an optimized energy management and lower heat dissipation, for energy savings and improved reliability.



### User Replaceable Batteries

Hot-swappable batteries that allow for service without disrupting power to your critical loads



### LCD display

User-friendly interface provides insight to UPS status for easy installation, configuration and operation with a 90° rotatable display for easy viewing in rack or tower installations.



### Compact rack/tower design

Space-saving UPS provides rack space optimization and flexible installation.



### Rack/Tower Hardware

Includes rail kit and stabilizing feet with all rack/tower models, providing secure and adaptable installation options.



### Product warranty

Comprehensive coverage through a standard five-year advanced exchange warranty.



## Vertiv™ Liebert® PSI5 Lithium-Ion UPS Key Features

### High Availability

#### Fewer Battery Replacements:

Liebert® PSI5 Lithium-Ion batteries on average last up to 3 times as long as traditional VRLA batteries. That means less scheduled maintenance, reduced operating costs, and lowest overall total cost of ownership.

#### More Runtime:

The Liebert PSI5 Lithium-Ion UPS's internal batteries offer up to 9 min. of runtime at full load, more than any comparable UPS model.

#### Higher power density:

Liebert® Lithium-ion batteries can pack more power into smaller spaces.

#### Quicker recharge:

Get back to max capacity quickly after an outage – the Liebert PSI5 Lithium-Ion UPS can recharge to 100% capacity in 2 hours.

#### More discharge cycles:

Lithium-ion batteries deliver up to 10x more charge/discharge cycles than VRLA batteries. Again, lowest TCO.

#### High Availability 0.9 Output Power Factor:

More usable power enables more connected loads, saving space and costs.

#### Wide Input Voltage Window:

Prolongs battery life by allowing the UPS to maximize the use of utility power before transferring 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 audible and visual alarms to alert you to an input voltage fluctuation (buck/boost), output overload, low battery or replace battery condition.

### Flexibility

#### Up to Ten Battery-Backed Outlets:

Allows flexibility in accommodating additional equipment to be connected to the UPS.

#### Optimized Form Factors:

Liebert PSI5 Lithium-Ion offers Tower, 2U or 3U Short Depth Rack/Tower convertible solutions to meet your application needs. The 3U Short Depth model offers the greatest power capacity with the smallest chassis depth making it ideal for 2-Post and wall mount racks.

#### Configurable Input Voltage Window:

Properly match the UPS to incoming utility power and adjust input window and transfer points to ensure regulated power to connected loads is within the selected range.

#### Programmable Outlet Group:

Extend run time when on battery power by power-cycling connected equipment and shedding less-critical loads.

#### Hot Swappable Batteries:

Increase product life and provide prolonged UPS reliability. Batteries are easily replaced without disrupting power to connected equipment.

### Manageability

#### Communications:

Power management functions through the USB port provide monitoring of UPS status and manage the automatic, orderly shutdown of attached equipment if power outage duration ever exceeds the battery capacity of the UPS or configured shutdown parameters.

#### Power Management Software:

Vertiv™ Power Assist provides intelligent monitoring and management software that is easy to connect and control directly connected USB / Serial devices in personal or general business.

Vertiv™ Power Insight provides on-premises and remote monitoring through the IntelliSlot networking cards that supports up to 100 devices with notification and control of your network-based devices.

For more details and Free downloads of Vertiv Power Assist or Vertiv Power Insight go [here](#).

#### SNMP Communication Option:

Add optional Vertiv™ Liebert® IntelliSlot™ communications card to enable SNMP and web-based management for the Liebert PSI5 UPS. The Liebert® IntelliSlot™ 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/1GB Ethernet
- Compatible with shutdown software to ensure graceful computer shutdown
- Vertiv™ Liebert® IntelliSlot™ Communications Cards also have Environmental Sensor support
- Allows remote, start-up or restart for connected equipment

#### Remote Emergency Power Off:

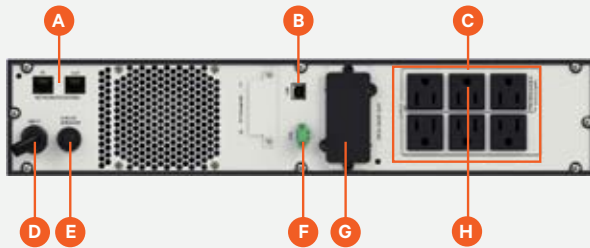
Allows the UPS to be remotely shut down during an emergency.



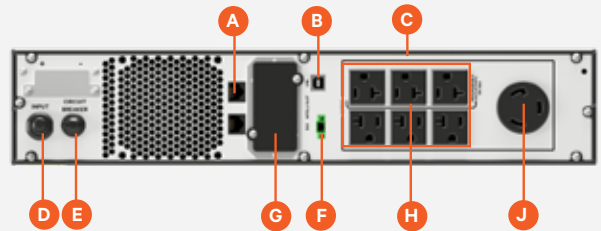
## What's In The Box

- UPS Unit
- USB Type A to USB Type B cable 1.8 meter (6ft) in length
- Printed quick start guide with safety instructions
- Rack mountig kit
  - 4-Post Kit with 2U Rack/Tower models
  - 2-Post Kit with 3U Short Depth Rack/Tower Model
- Support base for tower configuration
- Vertiv™ Power Assist Management Software; Free download
- Vertiv™ Power Insight Network Management Software; Free download (Network Management Card Required)
- Vertiv Liebert RDU120 Network Card (Only Models ending with an "N")
- Free 1-Year license for Vertiv™ Next Connect, with any PSI5 model that ends with an "N"

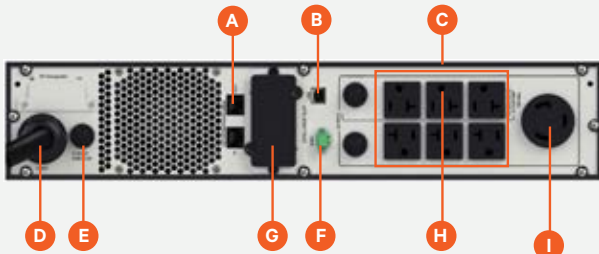
### Liebert® PSI5-1500RT120LI



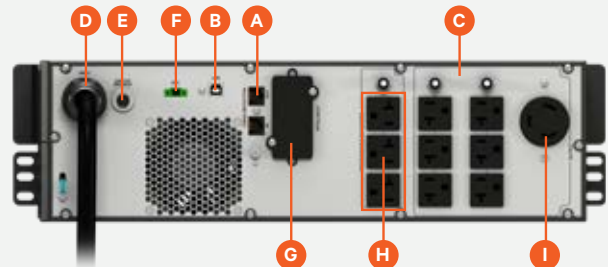
### Liebert® PSI5-2200RT120LI



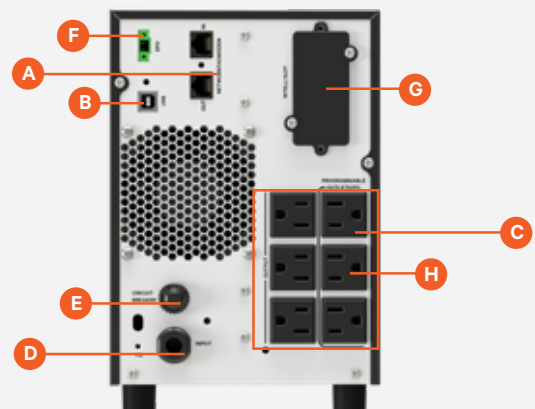
### Liebert® PSI5-3000RT120LI



### Liebert® PSI5-3000SRT120LI



### Liebert® PSI5-1500MT120LI



- A RJ-45 Data Line Surge Connectors
- B USB Port
- C Output Receptacles
- D Input Power Cord
- E Input Circuit Breaker
- F Emergency Power Off (EPO) Connector
- G Liebert® IntelliSlot (Optional Communications Card)
- H Programmable Outlet Group
- I NEMA L5-30R Output Receptacle
- J NEMA L5-20R Output Receptacle

# Vertiv™ Liebert® PSI5 Lithium-Ion 1500 - 3000VA 120V UPS

## Technical Specifications

| Models<br>Models with RDU120 Network Card | PSI5-1500MT120LI<br>PSI5-1500MT120LIN                                                                                                | PSI5-1500RT120LI<br>PSI5-1500RT120LIN   | PSI5-2200RT120LI<br>PSI5-2200RT120LIN   | PSI5-3000RT120LI<br>PSI5-3000RT120LIN   | PSI5-3000SRT120LI<br>PSI5-3000SRT120LIN   |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------|
| Form Factor                               | Tower                                                                                                                                | 2U Rack/Tower                           | 2U Rack/Tower                           | 2U Rack/Tower                           | 3U Rack/Tower                             |
| Power Rating                              | 1500VA / 1350W                                                                                                                       | 1500VA / 1350W                          | 1920VA / 1920W                          | 3000VA / 2700W                          | 3000VA / 2700W                            |
| Dimensions, W X D X H, IN (MM)            |                                                                                                                                      |                                         |                                         |                                         |                                           |
| Unit                                      | 6.3 x 15.6 x 8.7<br>(158 x 397 x 220)                                                                                                | 17.2 x 16.2 x 3.4<br>(438 x 411 x 86)   | 17.2 x 20.1 x 3.4<br>(438 x 510 x 86)   | 17.2 x 24.8 x 3.4<br>(438 x 630 x 86)   | 17.3 x 16.9 x 5.14<br>(438 x 430 x 130.6) |
| Rackmount depth                           | -                                                                                                                                    | 15 (380)                                | 18.9 (480)                              | 23.62 (600)                             | 15.7 (400)                                |
| Shipping                                  | 9.1 x 19.5 x 12.8<br>(230 x 495 x 325)                                                                                               | 10.2 x 22.9 x 22.4<br>(258 x 582 x 570) | 10.2 x 26.5 x 22.4<br>(258 x 672 x 570) | 10.2 x 30.8 x 21.7<br>(258 x 782 x 550) | 26.4 x 22.4 x 11.1<br>(670 x 570 x 282)   |
| Weight, LB (KG)                           |                                                                                                                                      |                                         |                                         |                                         |                                           |
| Unit                                      | 27.9 (12.7)                                                                                                                          | 28.3 (12.9)                             | 39.5 (18.0)                             | 53.5 (24.3)                             | 56 (25.4)                                 |
| Shipping                                  | 31.2 (14.2)                                                                                                                          | 42.1 (19.1)                             | 53.8 (24.4)                             | 67.9 (30.8)                             | 67.9 (30.8)                               |
| Input/Output AC Parameters                |                                                                                                                                      |                                         |                                         |                                         |                                           |
| Input Plug                                | NEMA 5-15P (90deg type)                                                                                                              | NEMA 5-15P                              | NEMA L5-20P<br>(5-20 Adapter included)  | NEMA L5-30P                             | NEMA L5-30P                               |
| Input Cord                                | 6ft (1.8m)                                                                                                                           | 8ft (2.4M)                              | 8ft (2.4M)                              | 8ft (2.4M)                              | 8ft (2.4M)                                |
| Non-Programmable Receptacles              | (3) NEMA 5-15R                                                                                                                       | (3) NEMA 5-15R                          | (1) NEMA L5-20R,<br>(3) NEMA 5-20R      | (1) NEMA L5-30R,<br>(3) NEMA 5-20R      | (1) NEMA L5-30R,<br>(6) NEMA 5-15/20R     |
| Programmable Receptacles                  | (3) NEMA 5-15R                                                                                                                       | (3) NEMA 5-15R                          | (3) NEMA 5-20R                          | (3) NEMA 5-20R                          | (3) NEMA 5-15/20R                         |
| Nominal Voltage Setting                   | 120VAC Default; 100/110/115/125VAC User Selectable                                                                                   |                                         |                                         |                                         |                                           |
| Voltage Range Without Battery Operation   | 75 - 146VAC                                                                                                                          |                                         |                                         |                                         |                                           |
| Frequency Range                           | 55-65Hz (57-63Hz Battery to Normal Comeback)                                                                                         |                                         |                                         |                                         |                                           |
| Surge Protection                          | ANSI C62.41, Category A, Level 3                                                                                                     |                                         |                                         |                                         | ANSI C62.41, Category B                   |
| Transfer Time                             | 4 - 6ms Typical                                                                                                                      |                                         |                                         |                                         |                                           |
| Battery Waveform                          | Pure Sine Wave                                                                                                                       |                                         |                                         |                                         |                                           |
| Efficiency                                |                                                                                                                                      |                                         |                                         |                                         |                                           |
| Normal (Line) Mode                        | 98.5%                                                                                                                                | 98.6%                                   | 98.5%                                   | 98.4%                                   | 98.1%                                     |
| Battery Parameters                        |                                                                                                                                      |                                         |                                         |                                         |                                           |
| Type                                      | Lithium-Ion (LiFePO4)                                                                                                                |                                         |                                         |                                         |                                           |
| Recharge Time (from full discharge)       | 2hrs to 90%                                                                                                                          | 2hrs to 90%                             | 2hrs to 90%                             | 2hrs to 90%                             | 2hrs to 90%                               |
| Full-Load Runtime                         | 7.5 min                                                                                                                              | 7.5 min                                 | 8.6 min                                 | 8.9 min                                 | 7.7 min                                   |
| Half-Load Runtime                         | 17.7 min                                                                                                                             | 17.7 min                                | 19.0 min                                | 20.0 min                                | 18.3 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, ft (m)                | 0 to 9,942 (0 to 3,000) without derating.<br>Operating temperature reduced 9°F (5 °C) for each additional 1,640ft (500m) of altitude |                                         |                                         |                                         |                                           |
| Audible Noise                             | < 45 dB @ line mode, < 55 dB @ battery mode                                                                                          |                                         |                                         |                                         |                                           |
| Certifications                            |                                                                                                                                      |                                         |                                         |                                         |                                           |
| Safety                                    | UL 1642 (LiFe cells), UL 1973 (LiFe pack), UL 1778, CSA 22.2 no. 107.3                                                               |                                         |                                         |                                         |                                           |
| Agency                                    | UL 1778, c-UL, NOM, FCC Part 15, Class B                                                                                             |                                         |                                         |                                         |                                           |
| Environmental                             | RoHS2 / REACH / WEEE                                                                                                                 |                                         |                                         |                                         |                                           |
| Network Surge                             | ANSI C62.41, Category A, Level 3                                                                                                     |                                         |                                         |                                         |                                           |
| Transportation                            | ISTA Procedure 2A<br>UN 38.3 (Lithium-ion)                                                                                           |                                         |                                         |                                         |                                           |
| Warranty                                  | 5 years on UPS and Battery                                                                                                           |                                         |                                         |                                         |                                           |
| Protection Plan                           |                                                                                                                                      |                                         |                                         |                                         |                                           |
| Equipment Protection Plan                 | \$400,000                                                                                                                            |                                         |                                         |                                         |                                           |

# Vertiv™ Liebert® PSI5 Lithium-Ion 500 - 1500VA Short-Depth 120V UPS

## Vertiv™ Liebert® PSI5 Lithium-Ion Short-Depth Features



### High power factor (0.9)

More usable power enables more connected loads saving space and costs.



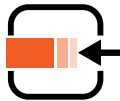
### Efficiency (>98%)

Energy Star 2.0 certification. Higher efficiency means an optimized energy management and lower heat dissipation, for energy savings and improved reliability.



### Extended Run

1500VA model only - Add up to 5 external battery cabinets to increase runtime for critical applications



### Compact rack/tower design

Space-saving UPS provides rack space optimization and flexible installation.



### Rack/Tower Hardware

Includes rail kit and stabilizing feet with all rack/tower models, providing secure and adaptable installation options.



### User Replaceable Batteries

Hot-swappable batteries that allow for service without disrupting power to your critical loads



### LCD with gravity sensitive orientation

User-friendly interface provides insight to UPS status for easy installation, configuration and operation.



### Product warranty

Comprehensive coverage through a standard five-year advanced exchange warranty.



# Vertiv™ Liebert® PSI5 Lithium-Ion 500-1500VA Short-Depth 120V UPS

## Vertiv™ Liebert® PSI5 Lithium-Ion Short-Depth UPS Key Features

### High Availability

#### Fewer Battery Replacements:

Liebert® PSI5 Lithium-Ion batteries on average last up to 3 times as long as traditional VRLA batteries. That means less scheduled maintenance, reduced operating costs, and lowest overall total cost of ownership.

#### More Runtime:

The Liebert PSI5 Lithium-Ion UPS's internal batteries offer up to 9 min. of runtime at full load, more than any comparable UPS model.

#### Scalable Runtime:

1500VA short depth UPS supports up to 5 lithium-ion external battery cabinets to provide greater runtime for critical loads.

#### Higher power density:

Liebert® Lithium-ion batteries can pack more power into smaller spaces.

#### Quicker recharge:

Get back to max capacity quickly after an outage – the Liebert PSI5 Lithium-Ion UPS can recharge to 100% capacity in 2 hours or less.

#### More discharge cycles:

Lithium-ion batteries deliver up to 10x more charge/discharge cycles than VRLA batteries. Again, lowest TCO.

#### High Availability 0.9 Output Power Factor:

More usable power enables more connected loads, saving space and costs.

#### Wide Input Voltage Window:

Prolongs battery life by allowing the UPS to maximize the use of utility power before transferring to battery when input exceeds specified limits (75 to 150 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 audible and visual alarms to alert you to an input voltage fluctuation (buck/boost), output overload, low battery or replace battery condition.

### Flexibility

#### Up to Eight Battery-Backed Outlets:

Allows flexibility in accommodating additional equipment to be connected to the UPS.

#### Optimized Form Factors:

Liebert PSI5 Lithium-Ion offers 1U, or 2U short depth Rack/Tower convertible solutions to meet your application needs. These short depth models offers the greatest power capacity with the smallest chassis depth making it ideal for 2-Post and wall mount racks.

#### Configurable Input Voltage Window:

Properly match the UPS to incoming utility power and adjust input window and transfer points to ensure regulated power to connected loads is within the selected range.

#### Programmable Outlet Groups:

Up to three programmable outlets to allow for segmented control of connected equipment. Reboot hung devices without impacting other equipment or load shed less critical loads to extend runtime.

#### Hot Swappable Batteries:

Increase product life and provide prolonged UPS reliability. Batteries are easily replaced without disrupting power to connected equipment

### Manageability

#### Communications:

Power management functions through the USB port provide monitoring of UPS status and manage the automatic, orderly shutdown of attached equipment if power outage duration ever exceeds the battery capacity of the UPS or configured shutdown parameters.

#### Power Management Software:

Vertiv™ Power Assist provides intelligent monitoring and management software that is easy to connect and control directly connected USB / Serial devices in personal or general business.

Vertiv™ Power Insight provides on-premises and remote monitoring through the IntelliSlot networking cards that supports up to 100 devices with notification and control of your network-based devices.

For more details and Free downloads of Vertiv Power Assist or Vertiv Power Insight go [here](#).

#### SNMP Communication Option:

Add optional Vertiv™ Liebert® IntelliSlot™ communications card to enable SNMP and web-based management for the Liebert PSI5 UPS. The Liebert® IntelliSlot™ 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/1GB Ethernet
- Compatible with shutdown software to ensure graceful computer shutdown
- Vertiv™ Liebert® IntelliSlot™ Communications Cards also have Environmental Sensor support
- Allows remote, start-up or restart for connected equipment

#### Remote Firmware Updates

Ability to remotely update the UPS firmware via the RDU120 network management.

#### Remote Emergency Power Off:

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



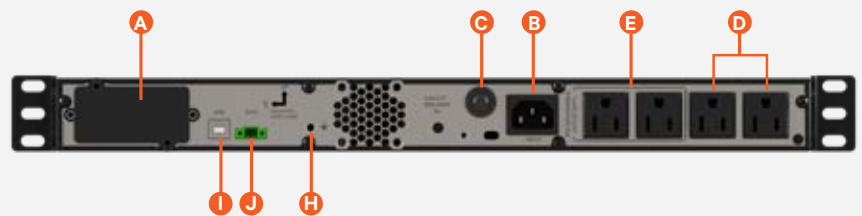
# Vertiv™ Liebert® PSI5 Lithium-Ion 500-1500VA Short-Depth 120V UPS

## What's In The Box

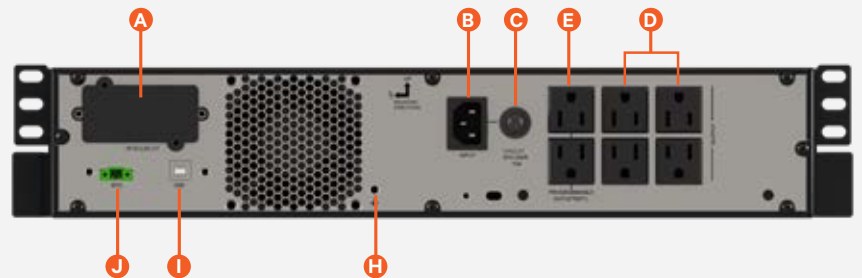
- UPS Unit
- USB Type A to USB Type B cable 1.8 meter (6ft) in length
- Printed quick start guide with safety instructions
- Rack mount ears
- 2-Post rack mounting kit (800-1500VA) flush mount
- Support base for tower configuration
- Input power cord 2.4 meter (8ft)
- Vertiv™ Power Assist Management Software; Free download
- Vertiv™ Power Insight Network Management Software; Free download (Network Management Card Required)
- Vertiv™ Liebert RDU120 Network Card (Only Models ending with an "N")
- Free 1-Year license for Vertiv™ Next Connect, with any PSI5 model that ends with an "N"

- A** Vertiv™ Liebert® IntelliSlot™ port
- B** AC input
- C** Input circuit breaker
- D** Non-Programmable receptacles
- E** Programmable receptacles P1
- F** Programmable receptacles P2
- G** Programmable receptacles P3
- H** Grounding screw
- I** USB Port
- J** Emergency power off (EPO) connector
- K** External battery cabinet (EBC) power connector
- L** EBC data connector

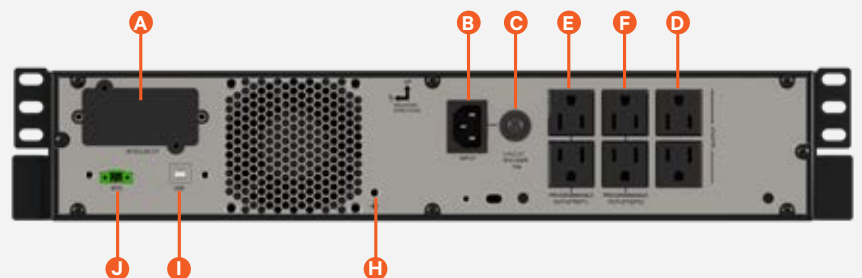
Liebert® PSI5-500SRT1ULI



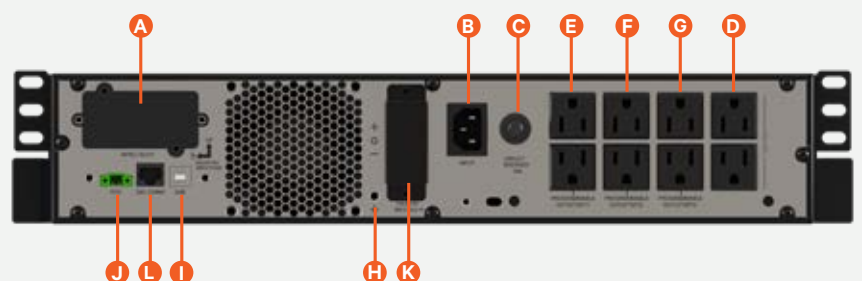
Liebert® PSI5-800SRT2ULI



Liebert® PSI5-1100SRT2ULI



Liebert® PSI5-1500SRT2UXLI



# Vertiv™ Liebert® PSI5 Lithium-Ion 500-1500VA Short-Depth 120V UPS

## Technical specifications

| Models<br>Models with RDU120 Network Card   | PSI5-500SRT1ULI<br>PSI5-500SRT1ULIN                          | PSI5-800SRT2ULI<br>PSI5-800SRT2ULIN              | PSI5-1100SRT2ULI<br>PSI5-1100SRT2ULIN            | PSI5-1500SRT2UXLI<br>PSI5-1500SRT2UXLIN            |
|---------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|
| Form factor                                 | 1U Rack/Tower                                                | 2U Rack/Tower                                    | 2U Rack/Tower                                    | 2U Rack/Tower                                      |
| Topology                                    | Line Interactive                                             |                                                  |                                                  |                                                    |
| Power rating                                | 500VA / 450W                                                 | 800VA / 720W                                     | 1100VA /990W                                     | 1500VA /1350W                                      |
| Net Dimensions, H x W x D in (mm)           |                                                              |                                                  |                                                  |                                                    |
| Unit<br>Rack orientation                    | 1.67" x 17.2" x 8.9"<br>(42.5mm x 438mm x 225mm)             | 3.4" x 17.2" x 11.8"<br>(86.2mm x 438mm x 300mm) | 3.4" x 17.2" x 11.8"<br>(86.2mm x 438mm x 300mm) | 3.4" x 17.2" x 11.8"<br>(86.2mm x 438mm x 300mm)   |
| Rackmount depth                             | 7.9" (200mm)                                                 | 10.6" (270mm)                                    | 10.6" (270mm)                                    | 10.6" (270mm)                                      |
| Shipping                                    | 7.3" x 22.4" x 14.6"<br>(185mm x 570mm x 370mm)              | 9.5" x 22.4" x 18.5"<br>(240mm x 570mm x 470mm)  | 9.5" x 22.4" x 18.5"<br>(240mm x 570mm x 470mm)  | 9.5" x 22.4" x 18.5"<br>(240mm x 570mm x 470mm)    |
| Weight, lb (kg)                             |                                                              |                                                  |                                                  |                                                    |
| Unit                                        | 12.3 lbs (5.6kg)                                             | 18.5 lbs (8.4kg)                                 | 18.5 lbs (8.4kg)                                 | 20.5 lbs (9.3kg)                                   |
| Shipping                                    | 14.8 lbs (6.7kg)                                             | 22.71 lbs (10.3kg)                               | 22.71 lbs (10.3kg)                               | 24.7 lbs (11.2kg)                                  |
| Input/Output AC Parameters                  |                                                              |                                                  |                                                  |                                                    |
| Input plug                                  | NEMA 5-15P                                                   |                                                  |                                                  |                                                    |
| Power cord length                           | 8ft/2.4m                                                     |                                                  |                                                  |                                                    |
| Total receptacles                           | (4) NEMA 5-15R                                               | (6) NEMA 5-15R                                   | (6) NEMA 5-15R                                   | (8) NEMA 5-15R                                     |
| Programmable segment                        | One                                                          | One                                              | Two                                              | Three                                              |
| Nominal voltage setting                     | 120VAC Default; 100/110/115/120/125VAC                       |                                                  |                                                  |                                                    |
| Voltage range without battery operation     | 75 - 150VAC                                                  |                                                  |                                                  |                                                    |
| Frequency range                             | 50/60Hz Auto Sensing 60Hz default                            |                                                  |                                                  |                                                    |
| Surge protection                            | ANSI C62.41 Category A                                       |                                                  |                                                  |                                                    |
| Transfer time                               | 4 - 6ms Typical                                              |                                                  |                                                  |                                                    |
| Battery output waveform                     | Pure Sine Wave                                               |                                                  |                                                  |                                                    |
| Battery parameters                          |                                                              |                                                  |                                                  |                                                    |
| Type                                        | Lithium-Ion (LiFePO4)                                        |                                                  |                                                  |                                                    |
| *Recharge time (from full discharge)*       | 2 hrs to 100%                                                |                                                  |                                                  |                                                    |
| Full-load runtime                           | 3.4 mins                                                     | 8.3 mins                                         | 6 mins                                           | 7 mins                                             |
| Half-load runtime                           | 8.2 mins                                                     | 16.8 mins                                        | 12 mins                                          | 13 mins                                            |
| Lithium-Ion External Battery Cabinet (EBC)  | -                                                            | -                                                | -                                                | VEBCLI-38VSRT1U                                    |
| EBC Runtime                                 | -                                                            | -                                                | -                                                | Reference User Guide or<br>Vertiv.com runtime tool |
| Environmental                               |                                                              |                                                  |                                                  |                                                    |
| Operating Temperature °F (°C)               | 32° to 104° no derating (0° to 40°)                          |                                                  |                                                  |                                                    |
| Storage Temperature °F (°C)                 | 14° to 113° (-10° to 45°)                                    |                                                  |                                                  |                                                    |
| Relative Humidity                           | 0% – 90%, non-condensing                                     |                                                  |                                                  |                                                    |
| Operating Altitude, ft (m)                  | 0 to 9,942ft (0 to 3,000m) without derating                  |                                                  |                                                  |                                                    |
| *Audible Noise @ 1 meter (3ft) - Line Mode* | <40 db                                                       |                                                  |                                                  |                                                    |
| Certifications                              |                                                              |                                                  |                                                  |                                                    |
| Safety                                      | UL 1778 5th Edition, UL1973 3rd Ed, CSA C22.2 1073-14        |                                                  |                                                  |                                                    |
| Agency                                      | UL 1778, c-UL, FCC Part 15 Class B, Energy Star 2, NOM, VCCI |                                                  |                                                  |                                                    |
| Environmental                               | RoHS2 / REACH / WEEE, California Prop65                      |                                                  |                                                  |                                                    |
| Transportation                              | UN 38.3, ISTA 2A                                             |                                                  |                                                  |                                                    |
| Warranty                                    | 5 years UPS and Battery                                      |                                                  |                                                  |                                                    |
| Protection Plan                             |                                                              |                                                  |                                                  |                                                    |
| Equipment protection plan                   | \$400,000                                                    |                                                  |                                                  |                                                    |

# Vertiv™ Liebert® PSI5 Lithium-Ion 500 - 3000VA 120V UPS

## UPS Battery Runtime Tables

Runtime Table for Liebert® PSI5 Lithium-Ion is available at <https://www.vertiv.com/en-us/support/tools-applications/vertiv-ups-interactive-runtime-tools/liebert-psi5-lithium-ion-ups-runtime-tool/>

## Accessories and Options

### Mounting Kit Options

These mounting kits are only applicable to Liebert PSI5 Rack/Tower Products

| Application         | Model Supported                    | Style           | Part Number | Description                                                                                                                                |
|---------------------|------------------------------------|-----------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 2 Post-Telecom rack | PSI5 Rack/Tower 2U UPS             | 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                                                                                                        |
| 4 Post Rack         | PSI5 Rack/Tower 3U Short Depth UPS | Shelf           | RS800       | Center-mount shelf for 23" rack wide                                                                                                       |
|                     |                                    | 4-Post Rail Kit | RMKIT12-18  | 4-Post Fixed Shallow Depth 12-18" rail kit                                                                                                 |
|                     |                                    | 4-Post Rail Kit | 20T193G1L   | 4-Post Fixed 18-32" rail kit                                                                                                               |

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



Liebert® PSI5 2U with 2POSTRMKIT

### Network Communication Cards and environmental sensors

Optional Intellislot cards are compatible with all Liebert® PSI5 UPS systems

#### Network Communications

|          |                                                                                                                                                                                                      |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RDU120   | Network Communication Card with 10/100/1000 Mbps Ethernet, web interface, SNMP, BACnet IP/MSTP, Modbus TCP/RTU and environmental sensor support.UL-2900-1 certified. Includes a configuration cable. |
| IS-RELAY | Intellislot Interface Kit for Relay Contacts                                                                                                                                                         |

#### RDU120 Card Environmental Sensors

|               |                                                                                                                                                                                                                                                                                        |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A2D-10**      | Analog to digital converter provides the ability to connect a dry contact, 0-10V, or 4-20mA sensor to a Plug-n-Play sensor port. Includes a 10ft / 3m cable.                                                                                                                           |
| A2D-50**      | Analog to digital converter provides the ability to connect a dry contact, 0-10V, or 4-20mA sensor to a Plug-n-Play sensor port. Includes a 10ft / 3m cable.                                                                                                                           |
| GT3HD**       | Temperature, humidity, and dew point sensor with dual inputs for included 3ft / .9m and 6ft / 1.8m temperature sensors for monitoring top, middle, and bottom of a rack or cabinet. Includes a supplementary input for daisy-chaining additional sensors. Includes 10ft / 3m cable.    |
| GT3HD-50**    | Temperature, humidity, and dew point sensor with dual inputs for included 3ft / .9m and 6ft / 1.8m temperature sensors for monitoring top, middle, and bottom of a rack or cabinet. Includes a supplementary input for daisy-chaining additional sensors. Includes 50ft / 15.2m cable. |
| GTHD**        | Temperature, humidity, and dew point sensor. Includes a supplementary input for daisy-chaining additional sensors. Includes 10ft / 3m cable.                                                                                                                                           |
| GTHD-50**     | Temperature, humidity, and dew point sensor. Includes a supplementary input for daisy-chaining additional sensors. Includes 50ft / 15.2m cable.                                                                                                                                        |
| SRT-12**      | Temperature sensor used to monitor temperature in critical environments. Includes a 12ft / 3.6m cable.                                                                                                                                                                                 |
| SRT-20**      | Temperature sensor used to monitor temperature in critical environments. Includes a 20ft / 6.1m cable.                                                                                                                                                                                 |
| SRT-50**      | Temperature sensor used to monitor temperature in critical environments. Includes a 50ft / 15.2m cable.                                                                                                                                                                                |
| SRT-100**     | Temperature sensor used to monitor temperature in critical environments. Includes a 100ft / 30.4m cable.                                                                                                                                                                               |
| RTAFHD3-12**  | Temperature, airflow, humidity, and dew point sensor. Includes 12ft / 3.6m cable.                                                                                                                                                                                                      |
| RTAFHD3-20**  | Temperature, airflow, humidity, and dew point sensor. Includes 20ft / 6.1m cable.                                                                                                                                                                                                      |
| RTAFHD3-50**  | Temperature, airflow, humidity, and dew point sensor. Includes 50ft / 15.2m cable.                                                                                                                                                                                                     |
| RTAFHD3-100** | Temperature, airflow, humidity, and dew point sensor. Includes 100ft / 30.4m cable.                                                                                                                                                                                                    |
| FS-15**       | 0-5VDC conductivity based flood sensor used to detect the presence of water. Includes a 15ft / 4.5m cable.                                                                                                                                                                             |
| FS-100**      | 0-5VDC conductivity based flood sensor used to detect the presence of water. Includes a 100ft / 30.4m cable                                                                                                                                                                            |
| RDPS**        | Magnetic normally-closed dry-contact sensor used to monitor remote door position. Includes 30ft / 9.1m cable.                                                                                                                                                                          |
| RDPS-50**     | Magnetic normally-closed dry-contact sensor used to monitor remote door position. Includes 50ft / 15.2m cable.                                                                                                                                                                         |
| RDPS-100**    | Magnetic normally-closed dry-contact sensor used to monitor remote door position. Includes 100ft / 30.4m cable.                                                                                                                                                                        |
| PFS-100 US**  | 0-5V power failure sensor to monitor the presence of utility power. Includes a 100ft / 30.4m cable and US NEMA power supply                                                                                                                                                            |

# Vertiv™ Liebert® PSI5 Lithium-Ion 500 - 3000VA 120V UPS

## Replacement Battery Kits and external battery cabinets

| UPS                                        | Internal Replacement Battery Kit | External battery cabinet |
|--------------------------------------------|----------------------------------|--------------------------|
| PSI5-500SRT1ULI(N)                         | PSI5-500SLIBATKIT                |                          |
| PSI5-800SRT2ULI(N)<br>PSI5-1100SRT2ULI(N)  | PSI5-1100SLIBATKIT               |                          |
| PSI5-1500SRT2UXLI(N)                       | PSI5-1500SLIBATKIT               | VEBCLI-38VSR1U           |
| PSI5-1500MT120LI(N)<br>PSI5-1500RT120LI(N) | PSI5-1500LIBATKIT                |                          |
| PSI5-2200RT120LI(N)                        | PSI5-2200LIBATKIT                |                          |
| PSI5-3000RT120LI(N)                        | PSI5-3000LIBATKIT                |                          |
| PSI5-3000SRT120LI(N)                       | PSI5-3000SLIBATKIT               |                          |

## Vertiv™ Liebert® MicroPod Features & Benefits:

- Power continuity during UPS maintenance
- 2U height minimizes rack space requirements
- Plug-and-play installation



Critical IT infrastructure should never be without power. The Liebert® MicroPod ensures continuous uptime, including during scheduled UPS maintenance. 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.

## Liebert MicroPod – Maintenance Bypass and Output Distribution

| UPS Model Number                                                                                               | MicroPod Model Number                         | Plug to Utility                         | Output Receptacles                                                                                      |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------|
| PSI5-500SRT1ULI(N)<br>PSI5-800SRT2ULI(N)<br>PSI5-1100SRT2ULI(N)<br>PSI5-1500SRT2UXLI(N)<br>PSI5-1500RT120LI(N) | MP2-115HW<br>MP2-115A                         | Hardwired<br>5-15P                      | Hardwired<br>8 x 5-15R                                                                                  |
| PSI5-2200RT120LI(N)                                                                                            | MP2-120HW<br>MP2-120C<br>MP2-120E             | Hardwired<br>5-20P<br>5-20P             | Hardwired, 5-20R<br>5-20R, 8 x 5-15/20R<br>L5-20R, 5-20R, 4 x 5-15/20R                                  |
| PSI5-3000RT120LI(N)<br>PSI5-3000SRT120LI(N)                                                                    | MP2-130HW<br>MP2-130C<br>MP2-130E<br>MP2-130P | Hardwired<br>L5-30P<br>L5-30P<br>L5-30P | Hardwired, L5-30R<br>8 x 5-15/20R<br>2 x 5-15/20R; 1 x L5-30R, 4 x 5-15/20R<br>4 x 5-15/20R; 2 x L5-20R |

## Vertiv™ UPS Software Benefits Ladder

| Feature                                   | Power Assist | Power Insight            | Environet™ Alert            | DSView Solutions       | Environet™ Connect       |
|-------------------------------------------|--------------|--------------------------|-----------------------------|------------------------|--------------------------|
| <b>Management</b>                         |              |                          |                             |                        |                          |
| Mass Firmware Upgrade (Network Card only) |              |                          |                             | •                      | •                        |
| Hypervisor Plugin                         |              | vCenter, vXRail, Nutanix |                             |                        |                          |
| Automated Server Shutdown                 | •            | •                        |                             |                        |                          |
| <b>Reporting</b>                          |              |                          |                             |                        |                          |
| Analytics and Reporting                   |              |                          | •                           |                        | •                        |
| Historical Data                           |              | •                        | •                           |                        | •                        |
| Thresholds and Alerts                     |              | •                        | •                           | •                      | •                        |
| Alarm Management                          | •            | •                        | •                           | •                      | •                        |
| <b>Monitoring</b>                         |              |                          |                             |                        |                          |
| IT Device Monitoring                      |              |                          |                             | •                      |                          |
| Thermal Monitoring                        |              |                          | •                           |                        | •                        |
| Power Monitoring                          | UPS Only     | UPS and Rack PDU         | •                           | UPS, Rack PDU, Servers | •                        |
| <b>Specifications</b>                     |              |                          |                             |                        |                          |
| Protocol Support                          | USB/SNMP     | SNMP                     | SNMP, Modbus TCP, BACnet IP | SNMP, IPMI, Redfish    | SNMP                     |
| Equipment Support                         | Vertiv Only  | Vertiv Only              | Multi-Vendor                | Multi-Vendor           | Multi-Vendor             |
| Max. Devices Support                      | 2            | 100                      | Scalable                    | Scalable               | Scalable                 |
| Software Architecture                     | On-prem      | On-prem                  | On-Prem                     | On-Perm                | Multi-Tenant Cloud based |
| Licensing                                 | Free         | Free                     | Perpetual                   | Subscription           | Subscription             |

# Vertiv™ Liebert® PSI5 Lithium-Ion 500 - 3000VA 120V UPS

## Vertiv™ Liebert® PSI5 UPS Lithium-Ion - 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 Lithium-Ion UP TO 3KVA                           | PAPPSI-1K3KLI | PAPPSI-1K3KLILF     | PAPPSI-1K3KLIRMV | PAPPSI-1K3KLIRLF       |

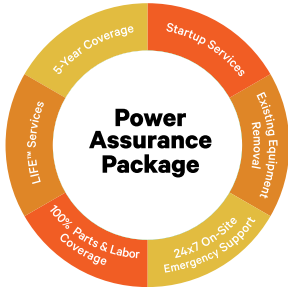
### Power Start-up Services

| Startup service Only                 | Standard    | With Removal  |
|--------------------------------------|-------------|---------------|
| Equipment Model / Type               | Part Number | Part Number   |
| Liebert® PSI5 Lithium-Ion UP TO 3KVA | SUPSI-1K3K  | SUPSI-1K3KRMV |

### Power Emergency Services

| 5-Year On-site Emergency Coverage - Only | Standard        | With LIFE Services |
|------------------------------------------|-----------------|--------------------|
| Equipment Model / Type                   | Part Number     | Part Number        |
| Liebert® PSI5 Lithium-Ion 1500VA         | PEPPSI-1500LI5Y | PEPPSI-1500LILF    |
| Liebert® PSI5 Lithium-Ion 2200VA         | PEPPSI-2200LI5Y | PEPPSI-2200LILF    |
| Liebert® PSI5 Lithium-Ion 3000VA         | PEPPSI-3000LI5Y | PEPPSI-3000LILF    |

### Power Assurance Package - Summary



- Includes all "Power Start-up Services" and "Power Emergency Services" support

### 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

### Power Startup Services - Summary

- Installation includes mounting and start-up of new UPS (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 equipment, if selected

### Vertiv™ LIFE™ Services includes above plus:

- Continuous Monitoring, Expert Analysis, and Proactive Response

Note: LIFE Services requires a Network Card.

Please refer to the appropriate Scope of Work for additional details.

