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Liebert

Vertiv Liebert PST5 UPS User Manual

Model: PST5-850MT120

1. Introduction

The Vertiv Liebert PST5 UPS is an Uninterruptible Power Supply designed to provide reliable power protection for your electronic devices. It safeguards against power outages, surges, and spikes, ensuring your equipment remains operational and your data is protected during electrical disturbances. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your UPS unit.



Figure 1: Vertiv Liebert PST5 UPS main unit, showing the top view with various outlets and the LCD display.

2. Product Features

The Liebert PST5 UPS offers a comprehensive set of features to ensure the safety and continuous operation of your electronics:

- **Surge Protection and Battery Backup:** Provides protection during damaging surges, spikes, or power outages. Includes USB communications for notifications and controlled shutdown with free software download.
- **8 Outlets:** Features 4 surge-only outlets and 4 battery & surge outlets. Two outlets are widely spaced to accommodate transformer-block plugs without obstructing adjacent outlets.
- **TEL/Network Data Line Protection:** Offers surge protection for RJ45/11 connections, safeguarding data lines.
- **Energy Efficient:** Energy Star certified, meeting eco-friendly requirements and contributing to cost savings.
- **3-Year Warranty:** Full unit coverage, including the battery, with an advanced replacement warranty.



Figure 2: The UPS provides power protection for a variety of electronic devices, including home and office computers, gaming systems, and surveillance equipment.



Figure 3: The UPS protects electronics against various power issues such as outages, surges, and voltage fluctuations.



Figure 4: Overview of the UPS controls and features, including the LCD display and various connection ports.

Product Overview Video

▶ **Watch video online**
Liebert PST5 UPS

Official product video demonstrating the features and benefits of the Liebert PST5 UPS. This video provides a visual guide to the unit's capabilities and how it protects your devices.

3. Setup

Follow these steps to set up your Vertiv Liebert PST5 UPS:

1. **Unpack the Unit:** Carefully remove the UPS from its packaging. Inspect for any shipping damage.
2. **Initial Charging:** Before initial use, connect the UPS to a standard wall outlet and allow it to charge for at least 8 hours. This ensures the battery is fully conditioned.
3. **Connect Devices:** Plug your critical electronic devices (e.g., computer, monitor, router) into the 'Battery Backup' outlets. Non-critical devices can be plugged into the 'Surge Only' outlets.
4. **Data Line Protection:** For network or telephone line protection, connect your incoming data line to the 'IN' port and your device's data port to the 'OUT' port using an RJ45/11 cable.
5. **USB Connection:** Connect the included USB cable from the UPS to your computer's USB port to enable communication for automatic shutdown software.

What's in the Box:

- UPS Unit
- USB Type A to USB Type B Cable (2 meters / ~6.5 ft)



Figure 5: Rear view of the UPS, illustrating the various ports for connecting your devices and data lines.

4. Operating the UPS

Once set up, operating your Liebert PST5 UPS is straightforward:

- **Power On/Off:** Press the power button on the front panel to turn the UPS on or off.
- **LCD Display:** The LCD screen provides real-time information about the UPS status, including input voltage, output voltage, battery charge level, and load capacity. Use the scroll button to cycle through different display modes.
- **Battery Backup Mode:** In the event of a power outage, the UPS will automatically switch to battery backup mode, providing power to connected devices. An audible alarm will sound to indicate this transition.
- **Low Battery Warning:** When the battery charge is low, the UPS will emit a distinct alarm, indicating that you should save your work and shut down your devices.
- **Overload Warning:** If the connected load exceeds the UPS's capacity, an overload alarm will sound. Disconnect non-essential devices to prevent shutdown.



Figure 6: The LCD display provides critical information about the UPS's operational status.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your UPS:

- **Battery Care:** The internal battery is designed for a specific lifespan. To maximize battery life, avoid frequent deep discharges. Store the UPS with a full charge if it will be unused for extended periods.
- **Cleaning:** Regularly clean the exterior of the UPS with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure ventilation openings are clear of dust and debris.
- **Environmental Conditions:** Operate the UPS in a clean, dry environment with adequate ventilation. Avoid extreme temperatures and humidity.
- **Battery Replacement:** The battery is user-replaceable. Refer to the full user manual for detailed instructions on safe battery replacement. It is recommended to replace the battery every 3-5 years, depending on usage.

6. Troubleshooting

If you encounter issues with your UPS, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
UPS does not turn on	No input power; Battery not connected or discharged	Ensure power cord is securely plugged into a live outlet. Allow battery to charge for 8 hours. Check battery connection.
UPS beeps continuously	Overload; Low battery; Fault condition	Reduce connected load. Save work and shut down devices. Contact support if fault persists.

Problem	Possible Cause	Solution
Short backup time	Overload; Old battery; Insufficient charge	Reduce connected load. Replace battery if old. Ensure initial 8-hour charge.

For more complex issues, please refer to the comprehensive troubleshooting section in the full user manual or contact customer support.

7. Specifications

Key technical specifications for the Vertiv Liebert PST5 UPS (PST5-850MT120 model):

- **Model Number:** PST5-850MT120
- **Capacity:** 850VA / 500W
- **Input Voltage:** 120 Volts
- **Output Connections:** 8 NEMA 5-15R (4 Battery & Surge, 4 Surge Only)
- **Product Dimensions:** 6.2 x 12 x 3.8 inches (6.24"D x 12"W x 3.82"H)
- **Item Weight:** 1 pounds
- **Battery Type:** Lead Acid (1 Product Specific battery included)
- **Color:** Black
- **Country of Origin:** China
- **First Available:** March 27, 2018

8. Warranty and Support

The Vertiv Liebert PST5 UPS is backed by a comprehensive warranty and dedicated support:

- **Warranty:** 3-year full unit coverage, including the battery, with an advanced replacement warranty. This ensures peace of mind and quick resolution in case of product issues.
- **Free Shutdown Software:** Available for download to enable automatic, orderly shutdown of connected equipment during extended power outages.
- **User Guide (PDF):** For detailed information, including advanced features, installation diagrams, and comprehensive troubleshooting, please refer to the official User Guide available at: https://manuals.plus/m/43c6cb4a194cc761e0c9dae0e45b7402b290035f4da07457c5a9f79fbbda6700

For further assistance or technical support, please visit the official Liebert website or contact their customer service.

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