VERTIV™

SmartCloset™

User Manual

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Refer to local regulations and building codes relating to the application, installation, and operation of this product. The consulting engineer, installer, and/or end user is responsible for compliance with all applicable laws and regulations relation to the application, installation, and operation of this product.

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Names of companies and products are trademarks or registered trademarks of the respective companies. Any questions regarding usage of trademark names should be directed to the original manufacturer.

Technical Support Site

If you encounter any installation or operational issues with your product, check the pertinent section of this manual to see if the issue can be resolved by following outlined procedures.

Visit https://www.vertiv.com/en-us/support/ for additional assistance.

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1 Product Overview

The SmartCloset™ is a complete rack solution designed to protect IT and network closets and to enable secure and rapid IT deployments for edge computing. This solution simplifies edge deployments through reliable infrastructure, which includes a rack enclosure, IT management capabilities, power distribution, lifecycle services, uninterruptible power supplies, and cooling mechanisms.

This document provides descriptions and resources for the various components that are included in the SmartCloset™. Refer to the appropriate section of this manual to learn more about each component.

You can find more component-specific information, including installation and operational procedures, in the documentation shipped with the component. Documentation can also be found using the QR codes provided within this document which will direct you to the respective product page for each component on www.Vertiv.com.

1.1 Features and Benefits

The SmartCloset™ provides the following features and benefits to distributed IT environments:

- Simplified IT deployments in edge applications with pre-validated models
- Rapid deployment for critical IT with in-stock components
- Reduced management complexity by seamlessly integrating infrastructure devices into your network for 24/7 remote management capabilities
- Elimination of incompatible product risk by selecting standardized solutions validated by leading IT vendors
- Consistent system-level warranty coverage
- 15 different model options to meet specific needs
- Choice of either Valve Regulated Lead-Acid (VLRA) or lithium-ion UPS technologies
- Network monitoring support via the communications card, which is standard for all models
- Monitored and Switched rPDU options
- Integrated environmental monitoring via the Switched rPDU
- Cable management accessories

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2 What's Included with Your SmartCloset™

The SmartCloset™ brings together the Vertiv™ VR Rack, Vertiv™ Liebert® UPS, and Vertiv™ Geist™ rPDU in one easy-to-order product, providing the infrastructure required to support mission critical business operations. The following figure shows the SmartCloset™ fully stocked with the essential components.

Figure 2.1   Vertiv™ SmartCloset™

Table 2.1   Vertiv™ SmartCloset™

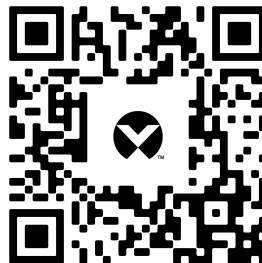| Number	Component
1	Vertiv™ VR Rack
2	Vertiv™ rPDU
3	Vertiv™ UPS

2.1 Vertiv™ VR Rack

The Vertiv™ VR is a premium rack enclosure, compatible with all standard rack-based equipment including servers, storage, switches, routers, PDUs, UPSes, console port servers, and KVM switches. Cable management and airflow management accessories are provided with the rack solution. The rack solution employs a tool-less design, allowing for easy rack configuration and adjustments, equipment installation, and servicing.

Figure 2.2   Vertiv™ VR Rack

Product documentation for the Vertiv™ VR can be found on the product page. Scan or click the QR code below to open the product page.

Vertiv™ VR

2.2 Vertiv™ Uninterruptible Power Supplies

The SmartCloset™ supports the following uninterruptible power supplies:

- Vertiv™ Liebert® PSI5 UPS, 3kVA 120VAC, VRLA
- Vertiv™ Liebert® PSI5 UPS, 3kVA 120VAC, Lithium-Ion
- Vertiv™ Liebert® GXT5 UPS, 3kVA 120VAC, VRLA
- Vertiv™ Liebert® GXT5 UPS, 3kVA 120VAC, Lithium-Ion
- Vertiv™ Liebert® GXT5 UPS, 5kVA 208VAC, VRLA

2.2.1 Vertiv™ Liebert® PSI5

The SmartCloset™ supports both the VRLA and lithium-ion models of the Vertiv™ Liebert® PSI5 UPS, 3kVA 120VAC. The Vertiv™ Liebert® PSI5 is a line-interactive UPS that ensures reliable power protection for servers, critical nodes, workstations, large network peripherals, network routers, bridges, hubs, and other electronic equipment. This UPS provides the following features and benefits for the SmartCloset™:

- Surge protection
- Battery backup
- Automatic voltage regulation
- Network monitoring via the Vertiv™ Liebert® IS-UNITY-SNMP communications card
- 4-6ms transfer-time to battery
- Scalable runtime (not applicable for lithium-ion models)

Figure 2.3 Vertiv™ Liebert® PSI5 UPS, 3kVA 120V, VRLA

Product documentation for the Vertiv™ Liebert® PSI5 UPS, 3kVA 120V, VRLA can be found on the product page. Scan or click the QR code below to open the product page.

Vertiv™ Liebert® PSI5 UPS,

3kVA 120V, VRLA

Figure 2.4   Vertiv™ Liebert® PSI5 UPS, 3kVA 120V, Lithium-Ion

Product documentation for the Vertiv™ Liebert® PSI5 UPS, 3kVA 120V, Lithium-Ion can be found on the product page. Scan or click the QR code below to open the product page.

**Vertiv™ Liebert® PSI5 UPS,
3kVA 120V, Lithium-Ion**

2.2.2 Vertiv™ Liebert® GXT5

The SmartCloset™ supports both the VRLA and lithium-ion models of the Vertiv™ Liebert® GXT5 UPS, 3kVA 120VAC, as well as the VRLA model of the Vertiv™ Liebert® GXT5 UPS, 5kVA 208VAC. The Vertiv™ Liebert® GXT5 UPS is an online, double conversion UPS solution which offers premium power outage protection and continuous power conditioning in a compact and flexible rack/tower form factor. This UPS provides the following features and benefits for your SmartCloset™:

- Surge protection
- Battery backup
- Automatic voltage regulation
- Network monitoring via the Vertiv™ Liebert® RDU101 communications card
- Zero transfer-time to battery
- Frequency regulation
- Scalable runtime (not applicable for lithium-ion models)

Figure 2.5   Vertiv™ Liebert® GXT5 UPS, 3kVA 120V/5kVA 208V, VRLA

Product documentation for the Vertiv™ Liebert® GXT5 UPS, 3kVA 120V/5kVA 208V, VRLA can be found on the product page. Scan or click the QR code below to open the product page.

**Vertiv™ Liebert® GXT5 UPS,
3kVA 120V/5kVA 208V, VRLA**

Figure 2.6   Vertiv™ Liebert® GXT5 UPS, 3kVA 120V, Lithium-Ion

Product documentation for the Vertiv™ Liebert® GXT5 UPS, 3kVA 120V, Lithium-Ion can be found on the product page. Scan or click the QR code below to open the product page.

**Vertiv™ Liebert® GXT5 UPS,
3kVA 120V, Lithium-Ion**

2.3 Vertiv™ Rack Power Distribution Units

The SmartCloset™ can be equipped with either a monitored or switched rPDU to provide reliable power distribution and enable remote monitoring with automated alerts.
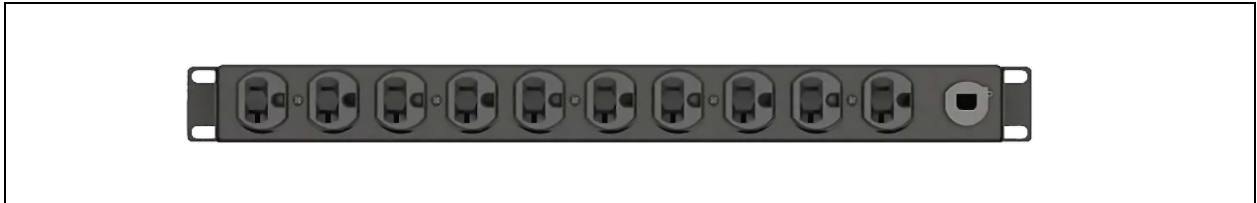
NOTE: Other PDUs can be purchased separately.

2.3.1 Monitored rPDU

The SmartCloset™ supports two models of monitored rPDUs: VP8832 and VP8841. The Vertiv™ Geist™ Monitored rPDU offers flexible monitoring of power usage, both physically and remotely, while continuously distributing reliable power to critical IT equipment. The monitored rPDU provides the following features and benefits for your SmartCloset™:

- Upgradeable Intelligence
- Remote Monitoring and Metering
- Alarms (SNMP, email, SMS)

Figure 2.7   Monitored rPDU, VP8832 - Vertical, 120VAC 30A, (24) NEMA 5-20 Outlets

Figure 2.8   Monitored rPDU, VP8841 - Vertical, 208VAC 30A, (36) C13, (6) C19 Outlets

Product documentation for the Vertiv™ Geist™ Monitored rPDUs can be found on the product page. Scan or click the QR code below to open the product page.

Vertiv™ Geist™ Monitored rPDU

2.3.2 Switched rPDU

The SmartCloset™ supports two models of switched rPDUs: VP8932 and VP8941. The Vertiv™ Geist™ Switched rPDU provides a comprehensive view of critical IT equipment power usage, both at the rack and via remote access with the added ability to remotely turn on, turn off, or reboot power at each outlet. The switched rPDU provides the following features and benefits for your SmartCloset™:

- Upgradeable Intelligence
- Remote Monitoring and Metering
- Alarms (SNMP, email, SMS)
- Remote Outlet Control (on, off, reboot)
- Programmable Power Sequencing

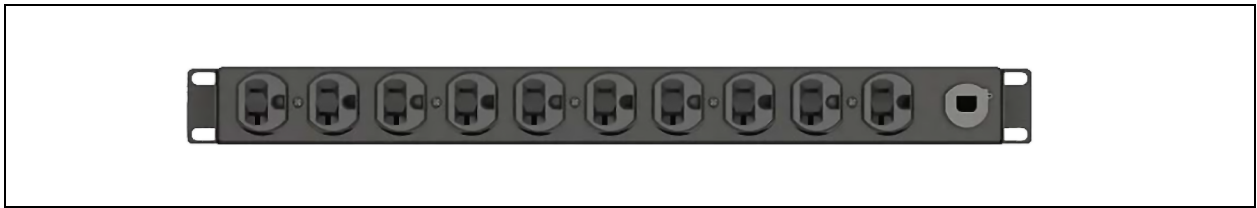**Figure 2.9 Switched rPDU, VP8932**

Figure 2.10   Switched rPDU, VP8941

Product documentation for the Vertiv™ Geist™ Switched rPDUs can be found on the product page. Scan or click the QR code below to open the product page.

Vertiv™ Geist™ Switched rPDU

Appendices

Appendix A: Technical Support and Contacts

A.1 Technical Support/Service in the United States

Vertiv Group Corporation

24x7 dispatch of technicians for all products.

1-800-543-2378

Liebert® Thermal Management Products

1-800-543-2778

Liebert® Channel Products

1-800-222-5877

Liebert® AC and DC Power Products

1-800-543-2378

Geist™ Products

- Website: www.Vertiv.com/geist
- Email: geistsupport@vertiv.com
- Telephone: 1-888-630-4445

A.2 Locations

United States

Vertiv Headquarters

505 N Cleveland Ave

Westerville, OH, 43082, USA

Europe

Via Leonardo Da Vinci 8 Zona Industriale Tognana

35028 Piove Di Sacco (PD) Italy

Asia

7/F, Dah Sing Financial Centre

3108 Gloucester Road, Wanchai

Hong Kong

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