



Vertiv™ Geist™ Rack PDUs

Power Perfectly Configured
for Your IT Application





Vertiv™ produces high quality products while providing you with superior service and value. Whether it is providing excellent customer service or implementing new technologies Vertiv promotes innovation, quality and satisfaction in all aspects of business.



Design, Assembly and Testing

On-site engineering, reliability, conformance and compliance labs allow us to design, manufacture and ship rPDUs so they arrive when you need them.

Each new unit is built and approved in our labs before being released to production.

Every unit is 100% tested for reliability and functionality.



Fully Compliant — Worldwide Approvals

Conformance labs with a dedicated compliance and reliability engineering team ensure conformance to global standards for safety, reliability and accuracy.



Largest rPDU Selection in the Industry

rPDUs stocked in the channel for immediate availability.

Standard units are built-to-order and shipped in as little as 3 to 5 business days.



Quick Turn Around on Configure-to-Order and Engineer-to-Order rPDUs

Cord length and chassis color changes can be shipped in as little as 5 to 7 business days.

Engineer-to-Order units designed to meet your unique specifications shipped in as little as 2 to 3 weeks.

The Broadest Range of rPDU Options Available

Vertiv™ Geist™ offers a wide range of Monitored and Switched rPDUs equipped with a network interface to allow for remote monitoring, management, and automated alerts. These units offer important insights on how to improve data center energy efficiency while enabling you to prevent downtime, providing notifications when user-specified thresholds for power and environmental conditions are breached.

Intelligent rPDUs

Monitored

Monitored rPDUs provide power usage remotely with access to the rPDU current, voltage, real power, apparent power, power factor and kilowatt hours. Available in Unit Level and Outlet Level monitoring configurations.

Switched

Switched rPDUs provide all the benefits of a Monitored rPDU plus the ability to remotely turn on, turn off, or reboot power at each outlet. Available in Unit Level and Outlet Level monitoring configurations.

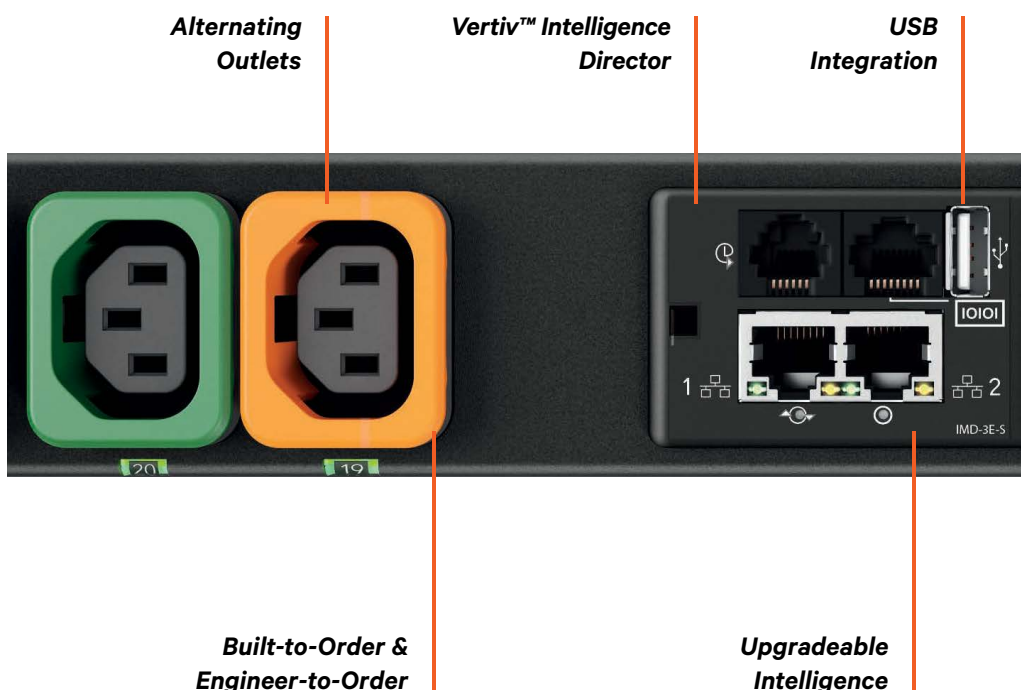
Basic and Metered rPDUs

Basic

Basic rPDUs offer reliable, space saving and cost-effective power distribution at the rack while meeting a broad range of power distribution requirements for all IT applications.

Metered

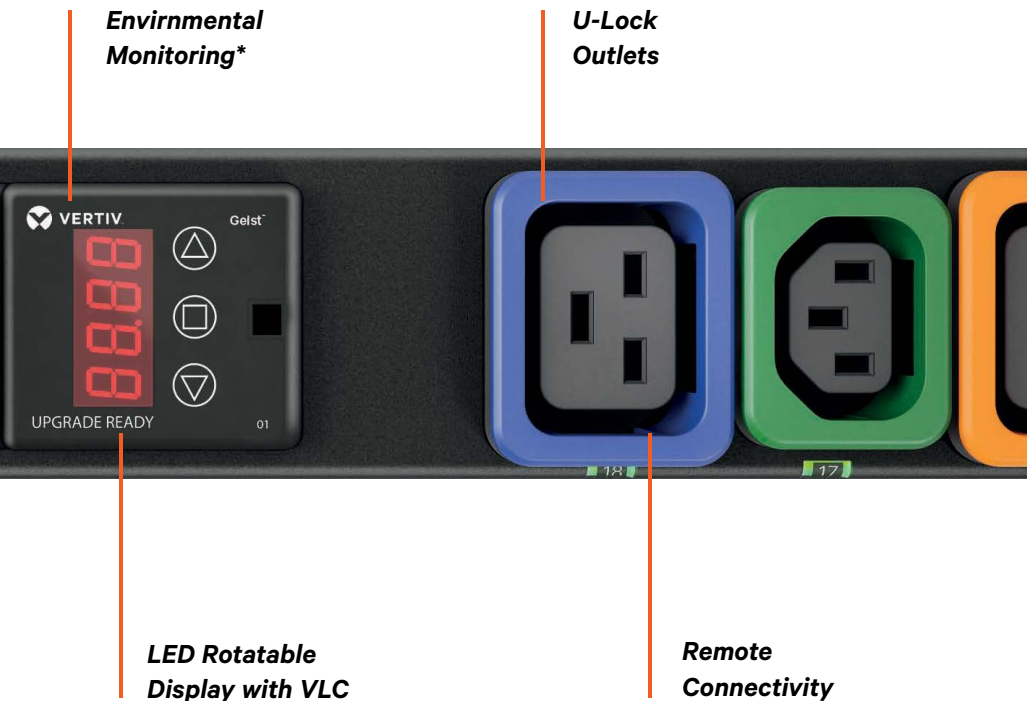
Metered rPDUs come equipped with a digital display providing power consumption data helpful in preventing overloads.



Finding the Right rPDU

Feature	rPDU Type			
	Basic	Metered	Monitored	Switched
Power Distribution	✓	✓	✓	✓
Current Meter		✓	✓	✓
VLC Enabled		✓	✓	✓
Network Interface			✓	✓
USB			✓	✓
Environmental Monitoring			✓	✓
Outlet-Level Monitoring			Optional	Optional
Outlet-Level Switching				✓
Upgradeable & Hot-Swappable	✓	✓	✓	✓
U-Lock Outlets	✓	✓	✓	✓
Horizontal and Vertical Configurations	✓	✓	✓	✓
Color Chassis Options	✓	✓	✓	✓

*Environmental Sensors compatible with the Intelligent rPDUs are located on page 11.

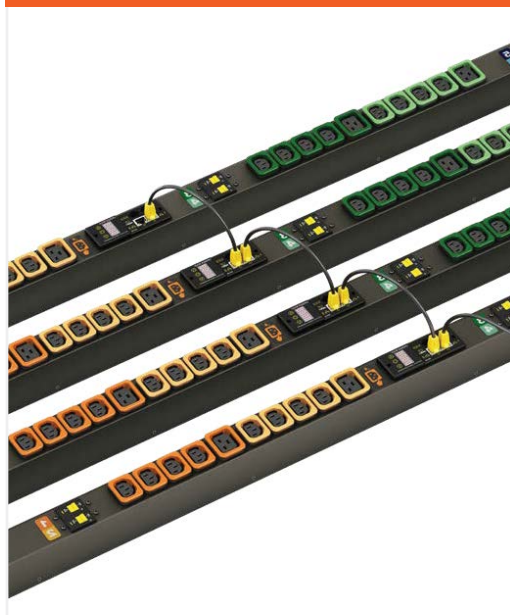


Ordering Information

To learn more about services and other Vertiv solutions, visit

Vertiv.com

Overview



Fault-Tolerant Daisy Chaining

- Simplifies intelligent rPDU connectivity and ensures data is reported, even if a break in the communication chain occurs.

High Temperature Grade

- 60°C temperature rating ensures reliable operation in high temperature environments.

Input Power Monitoring

- 1% Accuracy (ANSI and IEC) allows data center managers to accurately reconcile power usage.

Low-Profile Breakers

- Compact profile to install in tight spaces for units requiring breakers.

Enhanced Performance and Management of Dynamic IT Spaces

Enhance Business Agility, Efficiency and Availability with Vertiv™ Geist™ Rack PDUs

Data centre investments are sizable, and each component of the power chain from the facility entrance to the rack power distribution is crucial to enabling equipment availability. Enable your IT investment and your business to stay protected with the Vertiv Geist family of Rack PDU (rPDU) offerings.

The next generation of rPDUs provides the industry's highest availability and most intelligent power monitoring and distribution — complete with simplified energy management, a future-proof design, and cost savings that ensure your data centre and your business — can operate at peak efficiency.

Our complete portfolio of rPDUs offer value beyond power distribution. They easily integrate to your data centre infrastructure management systems to make your organization more resilient, enhance your business and provide the technological support you need to grow your company.



Power

Monitor

Integrate

Basic rPDUs

Vertiv™ Geist™ Basic Rack PDUs (rPDUs) offer reliable, space saving, and cost-effective power distribution at the rack. Our Basic rPDUs meet a broad range of power distribution requirements for all IT applications.

Intelligent rPDUs

Vertiv Geist offers a wide range of monitored and switched rPDUs equipped with a network interface to allow for remote monitoring, management, and automated alerts. Vertiv™ Geist™ rPDUs offer important insights on how to improve data centre energy efficiency while enabling you to prevent downtime, providing notifications when user-specified thresholds for power and environmental conditions are breached.

At a Glance

Color

Black powder coat finish.

Red, Orange, Yellow, Green, Blue, White available on Built-to-Order units.

Warranty

5-Year limited warranty if registered within 120 days of purchase, otherwise warranty defaults to 3 years.

Certifications

- China RoHS
- Assessed to EN 60950 for CE
- Assessed to EN 55032 and EN 55024 for CE
- Meti Denan (Japan)

Configure-to-Order and Engineer-to-Order Capabilities

Built-to-Order units provide additional features, colored chassis options, and varying power and receptacle configurations. Contact your Vertiv sales team for more information

Vertiv™ Geist™ Rack PDUs



Outlet Control

Address unresponsive equipment or increase runtime of critical equipment upon power failure with outlet-level control.



Upgradable & Hot-Swappable

Easily update your rPDU's monitoring capabilities to adapt to latest technologies and changing business needs.



Environmental Monitoring

Proactively monitor environmental conditions within the cabinet to ensure optimal operating conditions. A variety of sensors are available to meet your needs including temperature, humidity, airflow, door position, flood detection and more.



Vertiv Intelligence Director

Daisy-chain up to 50 devices on a single IP address. Reduce deployment time with self-configuration of downstream devices.



U-Lock

Secure power cords and avoid accidental disconnections. Receptacles are color-coded by circuit for instant identification.



Available Features

Built-to-Order units provide additional features, colored chassis options, and varying power and receptacle configurations. Contact your Vertiv sales team for more information.



High Temperature Grade

Up to 60°C working ambient variants for high temperature environments.



Remote Connectivity

Access the rPDU remotely via the network interface or serial connection to monitor power consumption and configure user-defined alert notifications to prevent downtime.



Fault-Tolerant Daisy Chaining

Simplifies intelligent rPDU connectivity and ensures data is reported even when a break in the network chain occurs.



Visible Light Communication (VLC)

Optically transmit data from the rPDU display to your mobile device using VLC for quick and secure access to unit and power consumption data.



Small Footprint and Low Profile Breakers

Compact size to install in tight spaces.



Power Monitoring 1% accuracy

Allows data centre managers to accurately monitor input and outlet level power usage with 1% monitoring accuracy tested to ANSI and IEC standards.



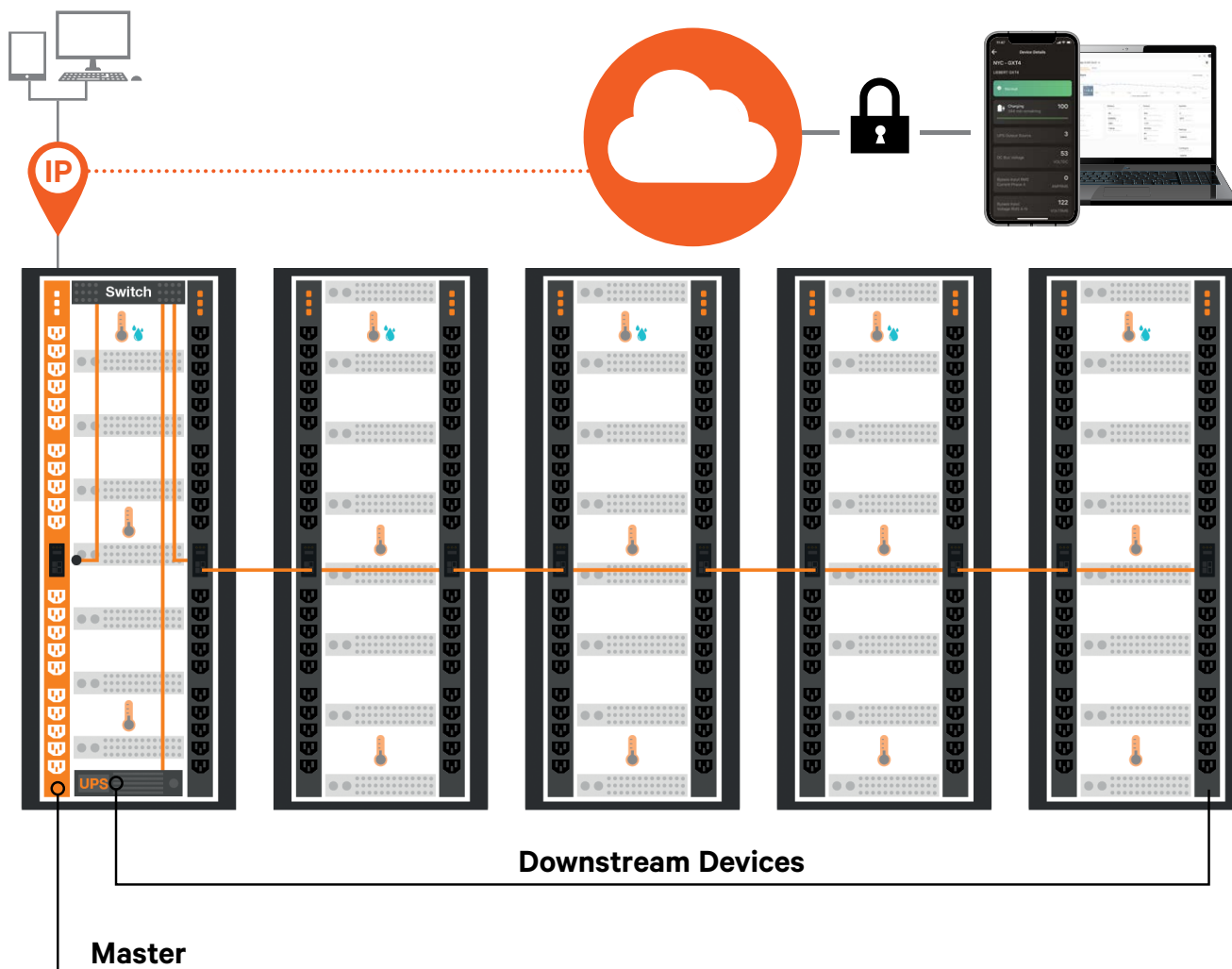
Universal Input

A universal input with a pivoting connector simplifies IT power infrastructure deployments by enabling users to standardize on a single rPDU globally.



Vertiv™ Intelligence Director

PLUG-N-PLAY DATA CENTRE INFRASTRUCTURE ENABLING LIGHTNING FAST DEPLOYMENTS



The next generation of Vertiv™ Geist™ rPDUs offer enhanced monitoring and simplified networking with the introduction of Vertiv Intelligence Director.

**One unit per group is required to have an IMD-03E, IMD-03E-S, IMD-3E or IMD-3E-S, installed. An IMD-03E-S can be purchased separately to upgrade a Monitored - Unit Level unit.*

***Vertiv Intelligence Director compatible with Vertiv™ Liebert® GXT4, GXT5, and VRC products.*

- On Monitored* and Switched units, users have the ability to daisy chain up to 50 devices with a single IP address.
- Access data from all downstream rPDU and UPS** devices from one master rPDU.
- Users are able to aggregate data by grouping devices by rack or row.
- Downstream devices self-configure, significantly reducing deployment time.

- Securely transmit device data to the Vertiv Intelligence cloud for anytime access to critical infrastructure information.

How it works

1. Designate a Switched or Monitored unit as the master unit.
2. Connect up to 100 devices through a network switch or by daisy chaining the rPDUs to the master unit.
3. Securely access downstream device data via SNMP or the master unit user interface through a single IP address and bring the consolidated data in your private cloud.
4. Bring your infrastructure data together with the option to connect to the Vertiv Intelligence cloud platform.

Vertiv™ Geist™ Rack PDUs

Universal Power Distribution Unit (UPDU)

The UPDU is the most versatile and robust rack power distribution unit on the market with a universal power input and pivoting connector that can mate to any geographically specific Facility Side Cable (FSC), simplifying management and enabling rapid IT infrastructure deployments.

The UPDU features a universal input and a detachable power cable meeting AC power specs that are common worldwide ranging from 16A to 63A, 120V to 415V with single and three phase power configurations.

Models available in 11kW and 22kW max power load capacities in both vertical and horizontal form factors with various receptacle combinations, monitoring and outlet control options.



The universal design enables a single unit to be purchased, installed and shipped to any location around the world, regardless of the regional power infrastructure.

The UPDU power configuration is determined by the connected FSC. Change the FSC to adjust the input power configuration of the UPDU.

How does it work?

1. Select a UPDU model based on anticipated maximum rack power usage.
2. Choose between a 2U Horizontal or 0U Vertical with a variety of monitoring, management, and outlet configuration options.
3. Install the same UPDU model in all racks and cabinets. The pivoting input adjusts from 0 to 90 degrees to simplify power cable routing.
4. Identify the facility power available for each location and select the FSC with the appropriate power configuration needed.
5. Simply swap out the FSC as power requirements increase or decrease to adapt to changing power needs.

Benefits

- Supply chain agility
- Global data centre interoperability
- Improve power efficiency with input and outlet level power monitoring
- Lower inventory management costs



30/32A, 3P+N+E (IP44)
FSC3U002



30/32A, 2P+E (IP44)
FSC1U001



16/20A, 3P+N+E (IP44)
FSC3U001

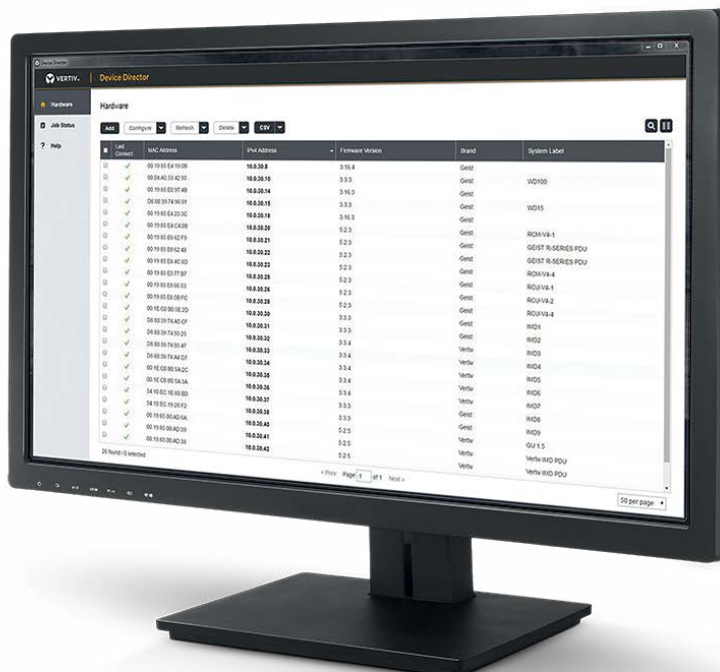
Device Director

Device Director is a comprehensive, Windows-based utility that is used to install, configure and maintain multiple Vertiv™ Geist™ devices within a single interface.

Device Director helps you set the IP addresses of multiple devices, configure user accounts, modify network settings, update firmware, export/import configuration settings and validate device connectivity.

Device Director gives you a powerful and easy way to mass configure Vertiv Geist devices, and effectively reduces setup time and maintenance cost.

- Automatic discovery of Vertiv Geist devices on the network
- Mass configuration of device and network settings
- Bulk firmware updates



Vertiv™ Geist™ Mobile

The Vertiv™ rPDU Scanner provides full visibility of the power distribution unit and its power consumption at your fingertips.

Using Visible Light Communication (VLC) technology, the Upgradeable line of rPDUs optically transmit information to your handheld device providing easy, secure, and instant access to power usage data at the cabinet or rack.

- Real-time capture of comprehensive rPDU data
- Automation of rPDU inventory management
- Secure & interference-free wireless data transmission
- Available on networked and non-networked rPDUs



How You Benefit from Vertiv™ Rack PDUs

Designed for High Availability



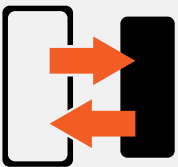
- High operating temperature rating to accommodate increased rack densities.
- Secure cords with U-Lock outlets to prevent accidental dislodging.
- Hot-swappable and upgradeable monitoring device allows users to upgrade as technology advances and business needs change.

Optimized Energy and Capacity Management



- Metering of key electrical parameters with +/-1% accuracy provides highly accurate comprehensive power monitoring.
- Lowest idle power consumption in the industry.
- Power and environmental trend reports through several Vertiv DCIM solutions to provide visibility and control of energy usage by IT equipment.

Simplified Integration with Management Tools



- Integration with Vertiv software stack to simplify implementation and change management translating to real cost savings.
- IPv4 and IPv6 support.
- Support for all major management, authentication and encryption standards and protocols to fully integrate with higher level data centre management software provided by Vertiv or third parties.

Compatibility with Racks and Power Chain



- Compatible with all industry racks and can be preinstalled in Vertiv racks to reduce installation costs and implementation time.
- Available in all major global voltage and amperage combinations typically used in data centre or remote sites.
- Easily integrate with Vertiv's full line of power products. A Vertiv expert can assist in selecting the right rPDU for your power chain needs.

Enhanced Security Features



- Visible Light Communication (VLC) for quick and secure access to unit and power consumption with the Vertiv™ rPDU Scanner mobile app.
- Together with Avocent® ACS VPN and Out-of-Band communication supports highest security communication for Edge applications.
- SNMPv3, ssh, HTTP(S) and IPv6 support.

Stocked Models

Item Number	Model	rPDU Type	Mounting	Nominal Voltage	Amps	Input Plug Type	Input Cord Length	Output Receptacles	Socket Type	Chassis Color
F0126851		Basic	Vertical	230V	16A	C20	3.0m	20 x C13 4 x C19	Locking	Black
14240246	C1650L	Basic	Vertical	230V	32A	IEC60309 2P+E	3.0m	20 x C13 4 x C19	Locking	Black
02240031	VP8853	Monitored Unit Level	Vertical	230V	32A	IEC60309 2P+E	3.0m	36 x C13 6 x C19	Non-Locking	Black
02240062	GI39711-R	Monitored Unit Level	Vertical	230V	32A	IEC60309 2P+E	3.0m	24 x C13 6 x C19 2 x BS1363	Locking C13 C19	Red
02240063	GI39711-B	Monitored Unit Level	Vertical	230V	32A	IEC60309 2P+E	3.0m	24 x C13 6 x C19 2 x BS1363	Locking C13 C19	Blue
01230224	GI30043L	Monitored Unit Level	Vertical	230/400V	32A	IEC60309 3P+N+E	3.0m	12 x C13 12 x C19	Locking	Black
02240035	GI30087L	Monitored Unit Level	Vertical	230/400V	32A	IEC60309 3P+N+E	3.0m	Alternating 24 x C13 6 x C19	Locking	Black

Non-Stocked Models

Item Number	Model	rPDU Type	Mounting	Nominal Voltage	Amps	Input Plug Type	Input Cord Length	Output Receptacles	Socket Type	Chassis Color
02240458	G2247	Metered Standard	Vertical	230V	16A	IEC60309 2P+E	3.0m	20 x C13 4 x C19	Non-Locking	Black
02240379	G2248	Metered Standard	Vertical	230V	32A	IEC60309 2P+E	3.0m	20 x C13 4 x C19	Non-Locking	Black
02240039	GR30019L	Monitored Outlet Level	Vertical	230V	32A	IEC60309 2P+E	3.0m	30 x C13 6 x C19	Locking	Black
02240041	GR30012L	Monitored Outlet Level	Vertical	230/400V	32A	IEC60309 3P+N+E	3.0m	Alternating 24 x C13 12 x C19	Locking	Black
02240085	VP8953	Switched Outlet Level	Vertical	230V	32A	IEC60309 2P+E	3.0m	20 x C13 4 x C19	Locking	Black
02240050	GU30014L	Switched Outlet Level	Vertical	230/400V	32A	IEC60309 3P+N+E	3.0m	12 x C13 12 x C19	Locking	Black
02240049	GU30019L	Switched Outlet Level	Vertical	230V	32A	IEC60309 2P+E	3.0m	30 x C13 6 x C19	Locking	Black

Integrate Environmental Sensors to Pro-actively Monitor Critical Infrastructure



Temperature — SRT

The SRT is an easy-to-install external temperature sensor great for monitoring a variety of areas, such as; A/C inlet, A/C outlet, ambient room temperature, hot spots, and internal cabinet temperature. The SRT is available in a variety of cable lengths. Contact a Vertiv sales representative for a full list of temperature sensor options.



Temperature/ Humidity/ Dew Point/ Airflow — RTAFHD3

The RTAFHD3 temperature, relative humidity, dew point, and airflow sensor provides critical information to ensure equipment is receiving adequate airflow within the optimal parameters to prevent premature equipment failure due to out-of-range operating conditions.



Temperature/ Humidity/ Dew Point — GTHD

The GTHD sensor collects and transmits real-time temperature and relative humidity data to protect critical data centre and Edge infrastructure from heat and moisture. The sensors can be daisy chained together to simplify installation.



Temperature x 3/ Humidity/ Dew Point Kit — GT3HD

The GT3HD provides real-time temperature and relative humidity monitoring with additional 3ft/ .9m and 6ft/ 1.8m temperature sensors. The GT3HD is ideal for monitoring temperature at the top, middle, and bottom of a server cabinet. A supplementary input provides the ability to daisy-chain additional sensors together making it a perfect solution for monitoring a row of racks or cabinets.

