



Brochure

Vertiv™ Liebert® SITESCAN™ Web System

Adaptable, proactive monitoring
hardware and software



Vertiv™ Liebert® SITESCAN™ Web System

Vertiv

Vertiv designs, builds and services mission critical technologies that enable the vital applications for data centers, communication networks, and commercial and industrial environments. We support today's growing mobile and cloud computing markets with our portfolio of power, thermal, infrastructure management products, software and solutions, all complemented by our global service network. Bringing together global reach and local knowledge, and our decades-long heritage, our team of experts is ready to take on your most complex challenges, creating solutions that keep your systems running—and your business moving. Together, we're building the future of a world where critical technologies always work.

Your vision, our passion.

Vertiv.com







When systems are critical, so is monitoring

What you don't know can hurt you

The reliability of your computing and communications systems is a direct result of the reliability of the power and environmental systems that help maintain their proper operation. Monitoring must be an integral part of your air and power infrastructure.

This is the key to assuring high availability and maximizing your investment in these critical facilities.

You have invested thousands of dollars in precision equipment and controls to protect your critical facility from the threats of heat, humidity and power problems. But stopping there can leave you vulnerable to the biggest threat of all - not knowing when an event occurs that can detrimentally affect the performance of your site

- Site monitoring is a critical element of maintaining maximum availability for your critical operations.
- Hundreds of facilities around the country count on the peace-of-mind they receive knowing that a Vertiv™ Liebert® SiteScan™ Web system is constantly on the job watching over the operation of these critical sites.
- SiteScan® Web delivers the information you need to protect and manage your facilities more efficiently and effectively.
- Oversee and critical support systems from nearly anywhere with Vertiv Liebert SiteScan Web.



Site monitoring with Vertiv™ Liebert® SiteScan™ Web



All systems are operating in a normal fashion.



Utility power fails. The UPS system switches the load to battery back-up.



The diesel generator starts as a power source for the load, but then fails on overload.

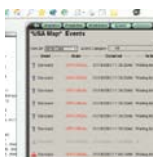
Vertiv Liebert SiteScan Web System immediately notifies key facility personnel of the problem.



Having received the "Generator failed on overload" alarm, the operator can shed non-critical loads from the generator, and then start the generator. Emergency power is available to the operation before the batteries are depleted. Utility power is restored after several hours and the data center has never gone offline.



All systems are up and running for the start of the workweek. Data center personnel can determine why the generator failed to start using Vertiv Liebert SiteScan Web's historical trending and analysis. (The maintenance staff had already replaced a dead battery detected by Vertiv Liebert SiteScan Web earlier, so they knew the battery was not the problem.)



As a result of Vertiv Liebert SiteScan Web's trending and analysis capabilities, the operator discovers that the kilowatt reading of the system control cabinet exceeded the generator by 20%, causing the overload condition.



The operator implements load shedding procedures to prevent the problem with the generator from happening again.

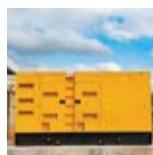
Without Vertiv™ Liebert® SiteScan™ Web Monitoring



All systems are operating in a normal fashion.



Utility power fails. The UPS system switches the load to battery back-up.



The diesel generator starts as a power source for the load, but then fails on overload.



The facility is unmanned over the weekend and no one is aware of the problem. The data center completely shuts down when the UPS battery is depleted after about 30 minutes.



1:02 AM Saturday

No one knows the system is completely down until they arrive Monday morning for work. Hundreds of employees are idle until the data center can be brought back on line.



8:00 AM Monday

Data center personnel think they've solved the problem by replacing a dead battery on the generator, but the real problem - an overload condition on the generator - is still undetected.



Now the actual problem lurks to cause another disaster. They have no way of going back to review the sequence of events. If this facility had been using the SiteScan Web site monitoring system, they would have known that the battery was not the real problem.

9:00 AM Monday

1:00 AM Monday

Dollars at risk

Detect the problem to correct the problem

There are any number of points within a critical facility where an unseen small problem can develop. An undetected small problem can lead to much larger and costlier disasters! These examples show the types of occurrences that can develop and what can happen if they are not responded to in a timely manner.

What do you need to know?

The first step to avoiding disaster is knowing what and where the problem is. You need enough information to guard against anything that can keep your critical support systems from being able to protect the operation of your computing and communications systems. Vertiv Liebert SiteScan Web provides the information you need.

A system without Vertiv Liebert Sitescan web

Breaker and Power Distribution

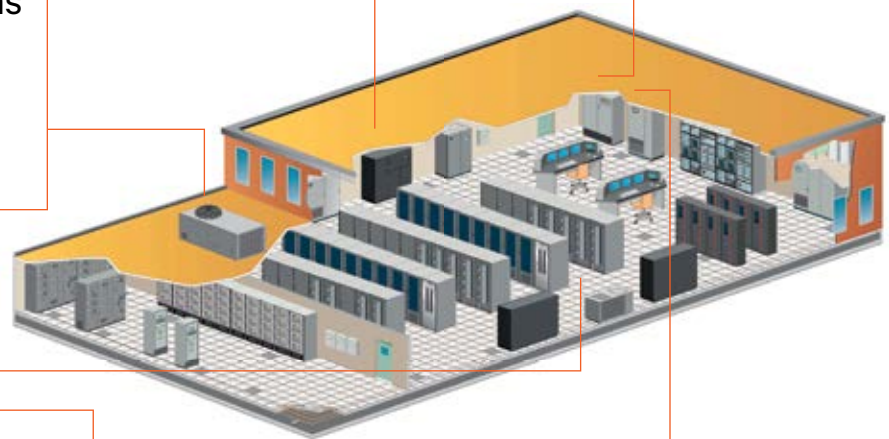
Several circuits are on the verge of overload. If one of these breakers trips, servers will crash.

Enclosure Systems

Racks and cabinets are a great way to consolidate and protect equipment. But any problems that develop inside are now concealed.

Critical Mechanical Systems

Systems A redundant pump kept your cooling system online after the primary pump failed. But now the system relies on a single pump and nobody is aware.



Water Leaks

Your data cabling is lying in a growing puddle of water under the raised floor because of a plumbing leak. There is a high risk of operations being affected and valuable time needed to find the cause of the problem.

Static Transfer Switches

A transfer switch fails to transfer when your primary power feed goes down in the middle of the night. This will go undetected until the next day when there are no sales reports, no e-mails and certainly no one conducting normal business.

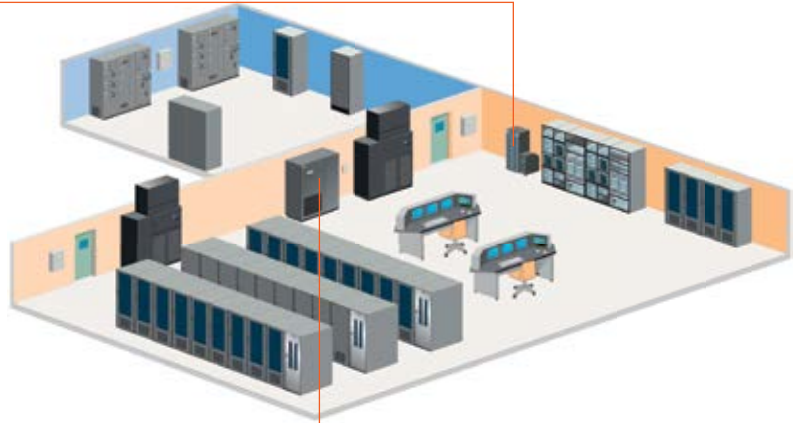


UPS Systems

Yesterday the UPS failed its automatic battery self-test. Today the UPS failed to carry the load during a momentary power interruption, halting a critical process. The real problem is never knowing the UPS failed a self-diagnostic test.

Power Conditioning Units

A grounding problem in your power conditioning system causes small voltage disturbances. You may not even realize there is corrupt data or damage to other systems until bigger problems occur months later.

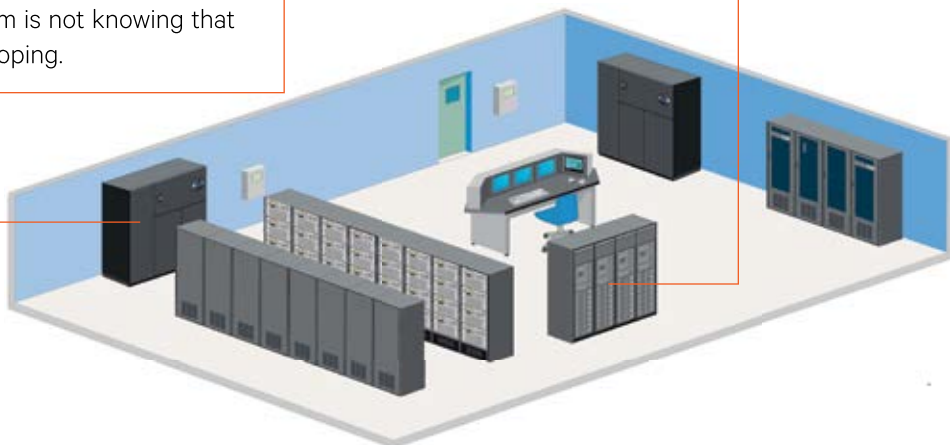


Environmental HVAC Systems

High head pressure, compressor short cycling, dirty filters, pump or fan failures - these are just a few of the problems that can cause mission-critical failures in air conditioning systems and other HVAC. The problem is not knowing that these troubles are developing.

DC Power Systems

An overvoltage condition in an essential DC power system causes an alarm to sound, but there is no one is there to hear it.

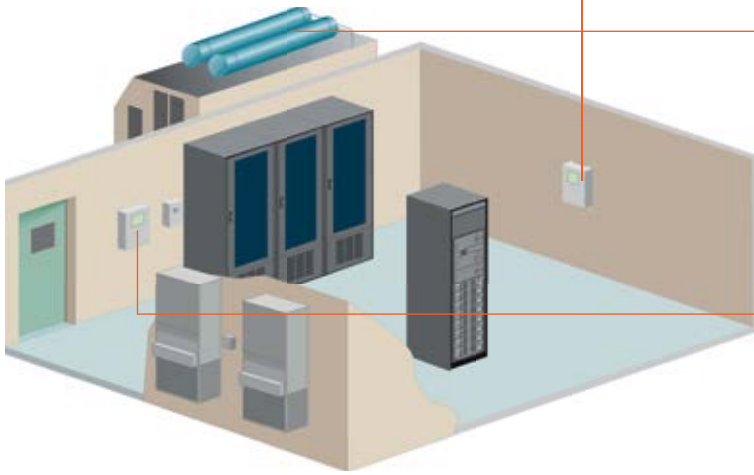


Surge Protection

A surge protector has protected your site through many storms. until it self-destructed during the last surge. But you don't know that it needs to be replaced.

Generator Operation

Your emergency generator came online during a power failure last night and kept things running for several hours. However, the fuel tank is now almost empty-and no one realizes it, leaving you unprotected for the next outage.



Intrusion Alarm

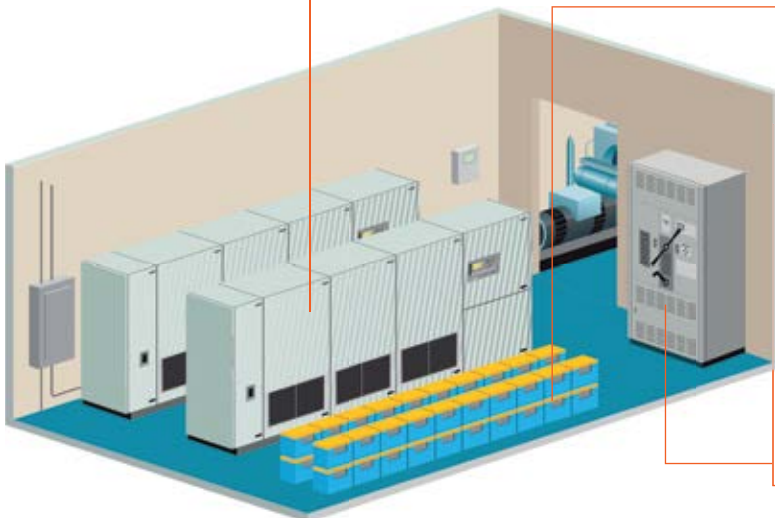
Unauthorized personnel entering a remote shelter is a big problem. However, the person who needs to be informed is unaware and may not be in the same building, or even the same state.

UPS Systems

Your UPS has an internal fault and has been on bypass since Sunday. No one will know about it until you lose utility power.

Battery System

You have a weak cell in your battery string. But it will go undetected until it fails five minutes into the next power outage.



Automatic Transfer Switches

During a utility power outage your UPS is supplying battery power to your computer equipment, and your back-up generator just came on-line. If the ATS does not transfer the load to generator power, then your network is still going to go down when you run out of battery power.



Vertiv™ Liebert® SiteScan™ Web everyone, everywhere, every time

It doesn't matter how much data you have if you're not using it well. Important information can be right in front of you, but it's probably buried in a mountain of data. Vertiv™ Liebert® SiteScan™ Web provides trend and historical analysis in a graphic format with easy-to-read charts and comparative analysis of multiple parameters. It's easier to compare and differences can be spotted more quickly. Vertiv Liebert SiteScan Web delivers useful information fast.

Design the system around your facility and your needs

Vertiv Liebert SiteScan Web's operation can be tailored to the specific requirements of your critical support infrastructure and the needs of different people in your organization, giving you a powerful tool to manage your enterprise.

Real-time monitoring

With Vertiv Liebert SiteScan Web you can get realtime status. It allows the operator to access current data and interact with graphic programming logic in real-time for full functionality. During an alarm, the system can provide instant information on actual performance. This allows for quick equipment assessment and the ability to take corrective action based on current and accurate information.

Additional system features and functions

Vertiv Liebert SiteScan Web offers several unique operational features that make it comprehensive yet easy-to use. Features include areas of accessibility, internationalization, operating features, subsystems, open standards, ease-of learning, system configuration, and reliability.

Event management and reporting

Vertiv Liebert SiteScan Web will show you exactly where the problem is. Events and alarms associated with a specific system, area, or equipment selected in the navigation tree are displayed. This view allows you to monitor alarm and event information geographically. Interacting with the event information is easy - you can acknowledge events, sort events by category, sort by actions, and verify reporting actions.

Data analysis and trend reporting

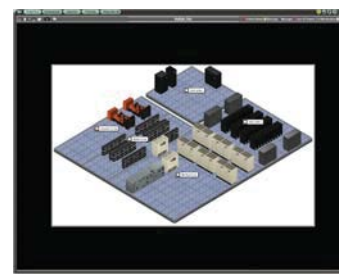
Vertiv Liebert SiteScan Web includes powerful tools to analyze data and use it to prevent specific problems from occurring again. The operator can view trends by using the navigation tree and selecting the "trends" button in the graphic window. Users can create custom trend data with one or multiple parameters. Extends to a comprehensive report writing tool for custom reports. to take corrective action based on current and accurate information.

System security

Vertiv Liebert SiteScan Web leverages advanced security features, such as SSL, HTTPS, and VPNs, for protecting sensitive data. It also provide additional security via role-based access and password protection capabilities.

Building management system interfaces

Building Management Systems (BMS) maintain a vital role on overall operations or facilities and buildings. Simply stated, Building Management Systems create and maintain controlled, energy-efficient environments for all types of premises. This includes the management and monitoring of core aspects of each facility, from power supply, temperature, and humidity, to fire, access and security. Most BMS systems contain the ability to communicate to Modbus and or BACnet devices. These languages or protocols are considered "Open" from the standpoint that they do not require special tools in order to integrate these devices into a BMS system



Vertiv Liebert SiteScan Web provides comprehensive monitoring of your critical facility support systems from anywhere in the world.

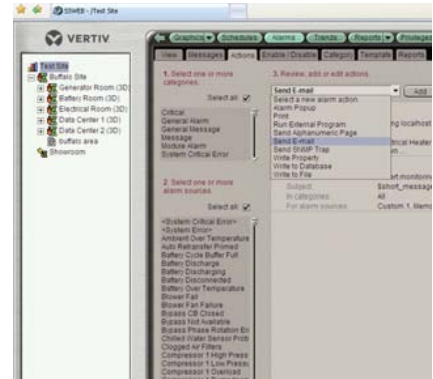
Event management and reporting

The information you need-every time you need it

Effective alarm management involves both receiving notifications and having access to the information needed to make informed decisions.

Getting the right information to the right people

Vertiv™ Liebert® SiteScan™ Web's alarm management features provide automatic notification of alarms via many options, including graphical display, audible alarms, and notification to Liebert's Remote Monitoring Service Team. Alarm management and event notification ensures that alarms are detected and acted upon, which allows problems to be quickly resolved. During an alarm, Vertiv Liebert SiteScan Web can provide instant status information. This supports quick equipment assessment and corrective action based on accurate information.



Available reporting actions

Event notification:

Getting the right information to the right people

Data delivery:

Proactive management through trends, graphs, report generation, and dashboards

BMS integration:

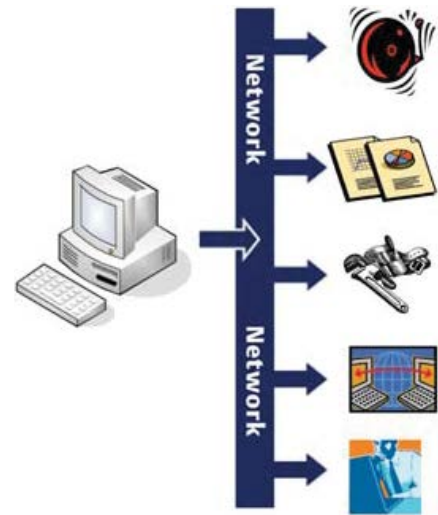
Making the most of investments and infrastructure with redundancy through dual monitoring

NMS notification:

Provide notification to already installed network monitoring systems for another layer of reliability and redundancy

24 x 7 remote management services:

Export support for lights out, event escalation, and vendor management solutions



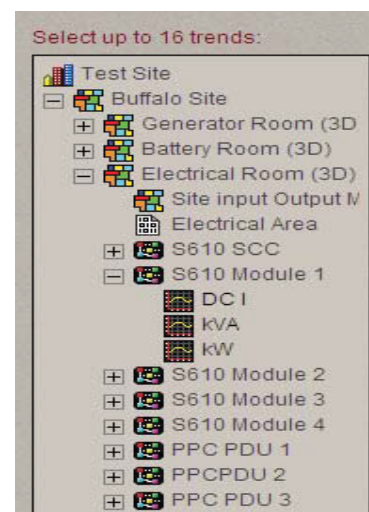
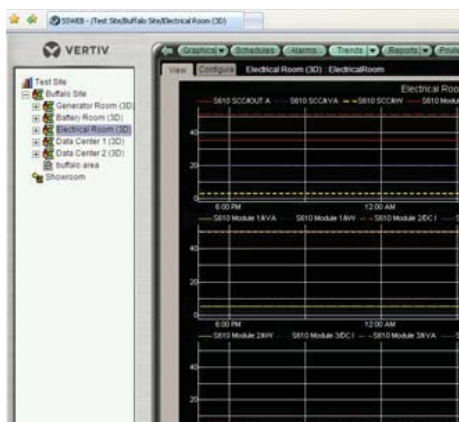


Data analysis and trend reporting

Trending and analysis help prevent problems in the first place

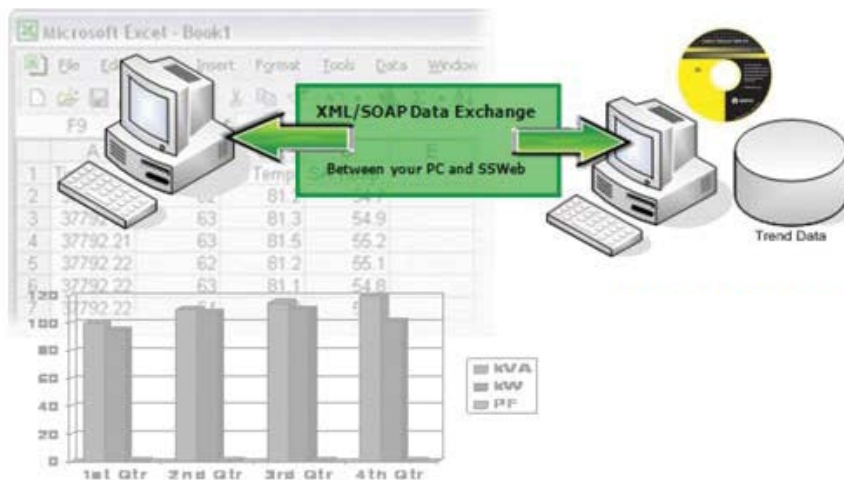
Track changes to plan the future

Vertiv™ Liebert® SiteScan™ Web provides trend and historical analysis including easy-to-read graphs and the ability to export data to Microsoft Excel for in-depth analysis of data. With Vertiv Liebert SiteScan Web you get powerful tools to prevent specific problems from occurring again.



Accessing data has never been this easy

One of the most powerful features within Vertiv™ Liebert® SiteScan™ Web is the ability to easily export current and historical data to external sources that create reports to help gain an understanding of the data center's efficiency, redundancy and overall capacity.



Vertiv™ Liebert® SiteScan™ Web

The step-by-step method to configuring your Vertiv Liebert SITESCAN Web System.

Selecting the appropriate hardware to use with your Vertiv Liebert SiteScan Web software is key to creating the optimum monitoring system for your critical facility.

1st Server software and client license

Choose the software and software components that complement your vision of the system.
 SSWEB - the base software package that includes unlimited users.

2nd Gateway

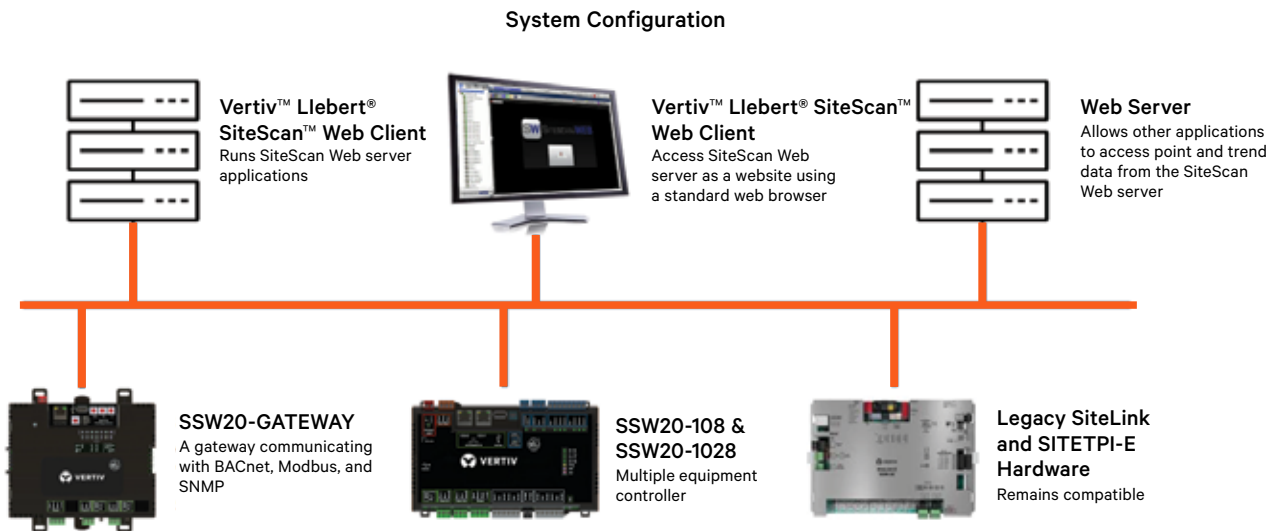
SSW20-GATEWAY is the gateway that will communicate to Vertiv™ Liebert® units, otherwise known as IGMs. Points are allocated for each device connected. The gateway supports a total of 5000 points. There are 1500 BACnet points by default and 3500 points that can be assigned to BACnet, Modbus, or SNMP.

3rd Input/output control modules

Choose the number of I/O modules necessary to monitor your digital and analog points. Next, choose your sensors if necessary.

SSW20-IO8: 8 universal inputs, 6 binary outputs, 2 analog outputs, and 1 universal output. Up to 300 points.
 SSW20-IO28: 8 universal inputs and 16 universal outputs. Up to 1500 points.

Sensors, Analog = 0-5 VDC, 4-20mA and thermistor sensors







Vertiv.com | Vertiv Headquarters, 505 N Cleveland Ave, Westerville, OH 43082, USA

© 2025 Vertiv Group Corp. All rights reserved. Vertiv™ and the Vertiv logo are trademarks or registered trademarks of Vertiv Group Corp. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness here, Vertiv Group Corp. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications, rebates and other promotional offers are subject to change at Vertiv's sole discretion upon notice.