


Solutions for
Business-Critical Continuity™

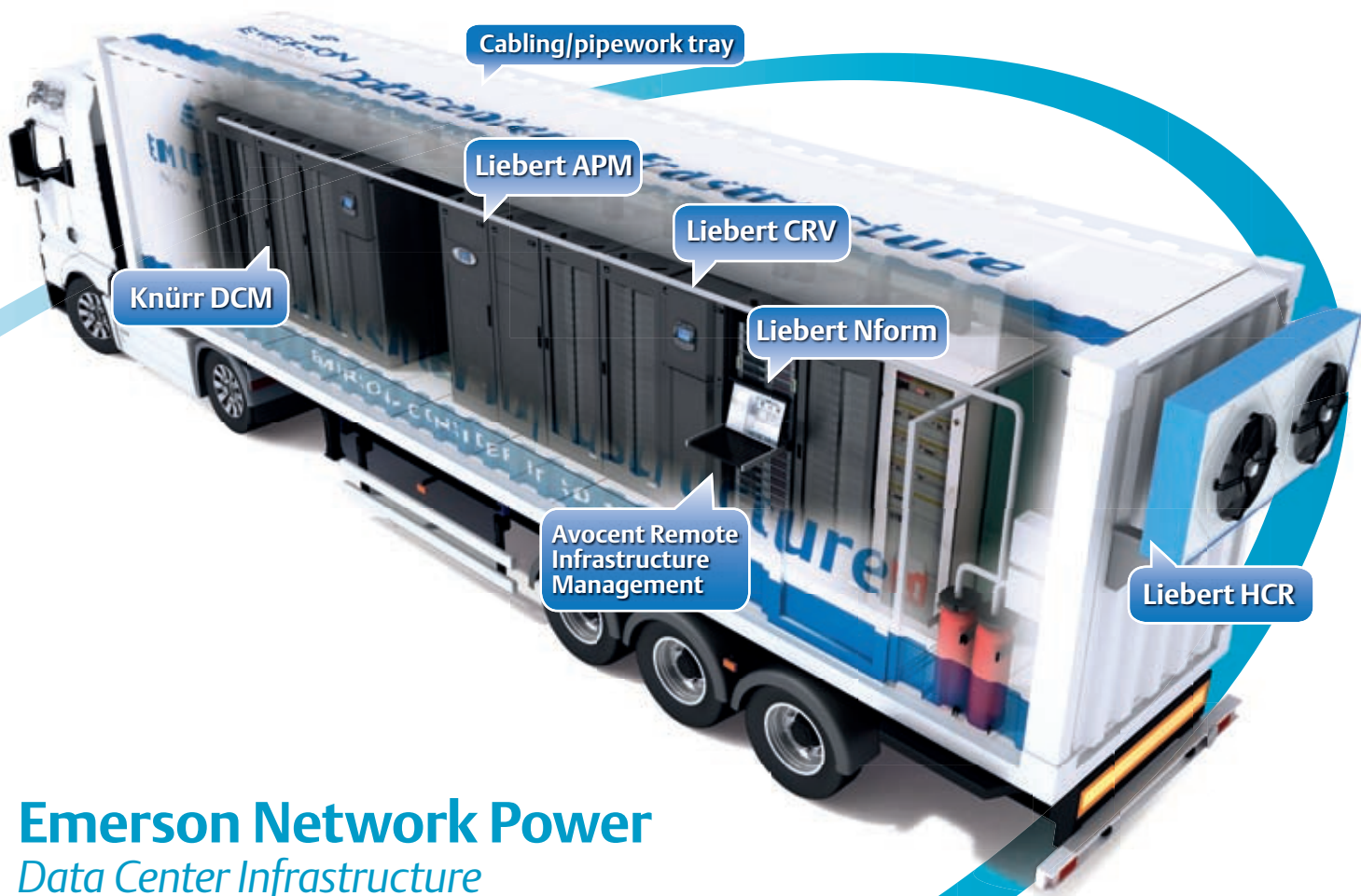
Emerson Network Power *Technology and Solutions for a World in Action*




EMERSON
Network Power

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Containerized Data Center Infrastructure



Emerson Network Power

Data Center Infrastructure for Small & Medium Applications



- Knürr DCM**
Rack platform for any data center application
- Improved airflow, highest in the industry
 - Lightweight aluminum frame
 - Doors open to 135°

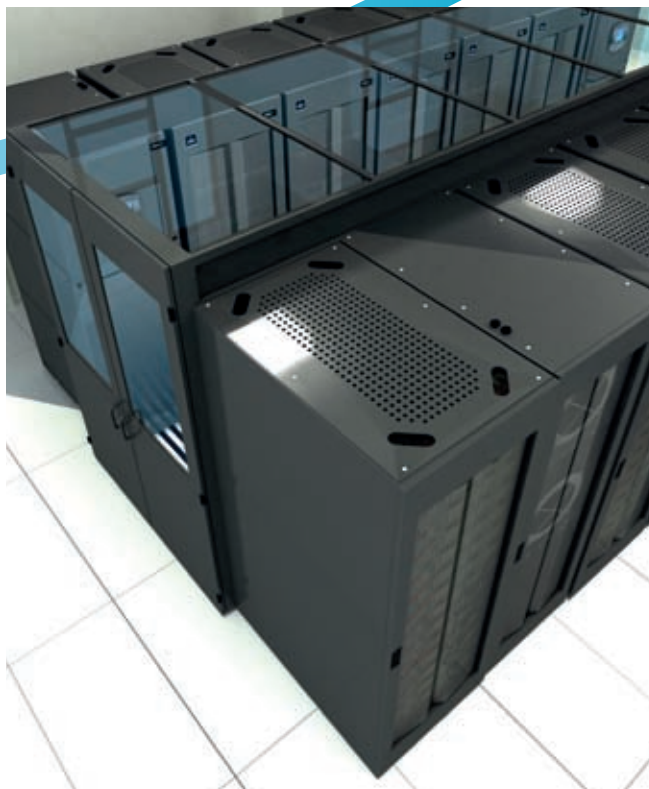


- Liebert GXT3**
- UPS with up to 0.9 PF to maximize power availability
 - Rack/Tower configuration in one form factor to better adapt to customer's installation needs
 - Wide variety of communication options
 - Extended runtime available



- Liebert MPX, Adaptive Rack PDU**
- Scalable & modular power distribution inside the rack
 - Control and management at the receptacle level
 - Hot swappable modules, allowing system expansion without powering down
 - IP consolidation through array of up to 4 rack PDU's connected together

SmartAisle™



Knürr Containment

- Roof and door elements, accessories (sealing, protection etc.)



Liebert APM

- FlexPower Technology™ to add unit capacity without increasing the UPS system footprint
- Parallel technology allowing four parallel units
- Lower MTTR with hot swappable modules



Liebert CRV

- Row-based high efficiency precision cooling unit
- Available in DX or CW versions
- Decoupled control for airflow and cooling capacity
- Modulating cooling capacity with digital scroll
- iCOM control with remote rack sensors



Centers of Expertise

When you partner with Emerson Network Power for your *Business-Critical Continuity™* needs across your enterprise, you benefit from more than products to support and protect your technology infrastructure. Developing such a wide range of technologies gives us in-depth industry knowledge and a “big-picture” understanding of how all systems must work together within any critical environment. We deliver this knowledge through Emerson Network Power’s Centers of Expertise, distinct areas of world-class products and services that help you determine what you need and where, depending on your application. All so that you can keep your business moving forward for your customers.

■ AC Power

Sustaining critical operations that simply can’t go down. We deliver a full range of uninterruptible Liebert® and Chloride AC power systems and associated power distribution and racks, from individual products to integrated systems that keep network closets, computer rooms and data centers up and running.

■ Infrastructure Management & Monitoring

Managing and monitoring critical environments at multiple sites around the clock. We make it easy in today’s ROI-driven business environment, with comprehensive infrastructure management and 24/7 monitoring systems and services that provide continuous oversight of data centers, computer rooms and network closets, as well as wireless, wireline and enterprise telecom applications.

■ Power Switching & Controls

Safeguarding facilities from operational disruption due to electrical power interruption. We provide ASCO® power-transfer switches, generator paralleling switchgear/power control systems, and touch screen SCADA for monitoring and control of the utility service and on-site backup power generators, helping ensure continuity of supply to essential and mission-critical communications, data-processing, life-safety, and other critical loads. Backed by the largest manufacturers, direct field based project management and service technicians in the industry.

■ Precision Cooling

Maintaining precise temperature for reliable equipment performance. We deliver “chip-to-room cooling” - the most comprehensive range of Liebert precision-cooling solutions, which protect mission-critical applications from even the slightest increase in temperature.

■ Racks & Integrated Cabinets

Optimizing technology and performance needs for indoor IT applications. We deliver standard and customized integrated cabinet solutions that meet unique and specific needs, from Knürr and Liebert rack solutions for computer rooms of all sizes to integrated racks that include self-contained air conditioning, UPS and cable management in a sturdy, lockable cabinet.

■ Surge Protection

Defending power, voice and data moving through the network against grid irregularities and dangerous electrical disturbances. Depending on the application, we offer Liebert and PowerSure™ AC Power Protection, Islatrol™ Active Tracking Filters and Edco™ data/signal surge protective devices, all of which provide power protection to reduce downtime, saving crucial man-hours and extending equipment life.

■ Services

Delivering assessment, testing and reliability programs backed by the largest global services organization in the industry. We encompass engineering, installation, startup services, project management, training, and total on-site operations management, preventive and predictive maintenance and energy consumption monitoring.

Emerson Network Power

Data Center Infrastructure for Large Applications



Liebert HPC

- Wide range of high-efficiency freecooling chillers from 40 kW to 1600 kW
- Designed specifically for data center applications and to work with SmartAisle™
 - Premium energy efficiency version
 - iCOM control featured



Liebert HPM

- From 4 kW to 230 kW, DX-Digital Scroll-CW
- Premium energy efficiency
 - Eurovent certified performance
 - Unique control capabilities with iCOM

SmartAisle™

- Aisle containment
- Provides highest energy efficiency
- Works with any Liebert Cooling Unit



Knürr CoolTherm® 4-35 KW

- Energy efficient server cabinet technology
- Significant Total Cost of Ownership (TCO) reduction
 - Autonomous server rack; independent from environmental conditions
 - Up to 30% improved cooling system energy efficiency



Power Distribution Rack

- Central connection unit for power supplies in individual server racks
- Interface between the low voltage feed and PDU
 - Individual plug-in units
 - Up to 329 kVA/Rack



Avocent MergePoint® Unity Appliance

- Secure remote KVM over IP access to servers
- Secure remote access to servers in data centers and branch offices
 - Using both in-band and out-of-band tools together allows for a more fault-tolerant and complete, remote management solution



Avocent MergePoint® Service Processor Manager

- Secure remote management of embedded service processors
- Single-console for multiple service processor types and IPMI
 - Support for SOL, power control and hardware monitoring



Chloride Trinergy

- Dynamic functioning modes (VFI, VI, VFD) with average working efficiency of 97.9%
- Three dimensions of modularity for optimum scalability (up to 9.6 MW)
- Maximum availability thanks to internal redundancy and concurrent maintainability



Liebert NXL

- UPS for critical high power applications
- Provides greater power capacity along with superior reliability
- Meets power requirements and energy efficiency in high availability data centers



Liebert STS

- Solid-state digital bus transfer switch for uninterrupted power supply
- Dual-bus power systems connecting critical loads with two independent UPS systems
- Best reliability with Triple Logic Redundancy in power control



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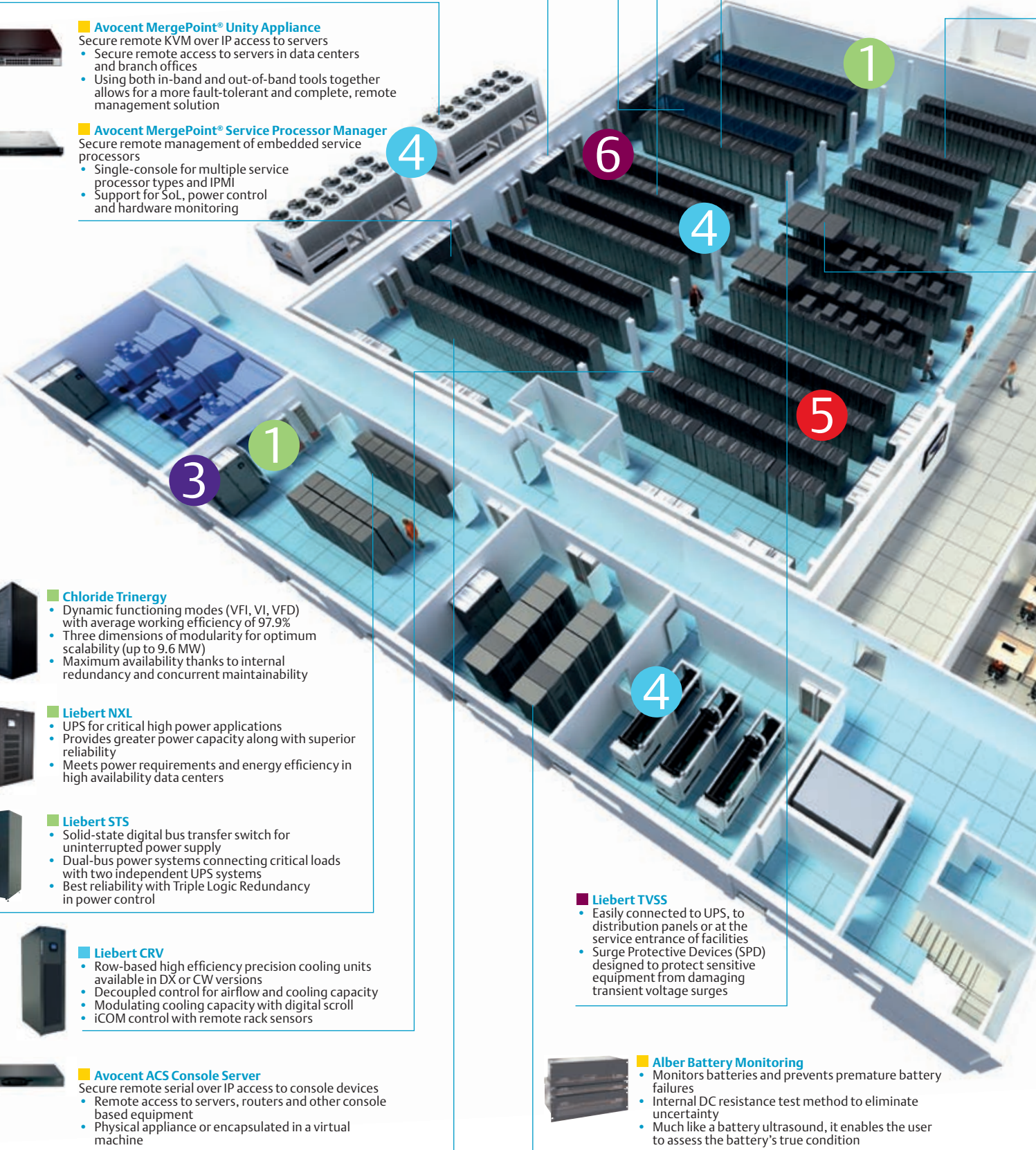
Avocent ACS Console Server

- Secure remote serial over IP access to console devices
- Remote access to servers, routers and other console based equipment
 - Physical appliance or encapsulated in a virtual machine



Alber Battery Monitoring

- Monitors batteries and prevents premature battery failures
- Internal DC resistance test method to eliminate uncertainty
- Much like a battery ultrasound, it enables the user to assess the battery's true condition





- Rack PDU**
 Rack-based power distribution units
- Supports strip-level metering, outlet-level switching and outlet-level metering/switching for remote power management and control
 - Horizontal and vertical models for a variety of rack configurations in branch and remote offices



- Liebert CRD®**
 Passive chilled water heat exchanger
- Cools up to 30 kW
 - Neutralizes room heat
 - Fits to Knürr and third party products



- Knürr Miracel®**
 19" rack platform for server, telecommunication and network technology
- Aluminum construction
 - Screw construction
 - T-slot system



- Liebert XD**
- Refrigerant based high density cooling installed close to the server
 - Hot spot management for up to 30 kW per rack
 - On-demand upgrade with plug and play
 - High efficiency and 100% sensible cooling



- Avocent DSView® 3 Management Software**
 Centralized data center management
- Remotely accesses, monitors and controls target devices on multiple platforms at numerous locations—anywhere, anytime
 - Secure, out-of-band, centralized management of all connected IT and network devices in dispersed data centers



- Avocent DSView® 3 Power Manager**
 Detailed power and environmental information and control at your fingertips
- Adds power monitoring capability to the access and control functions of DSView 3 software
 - Monitors/measures IT energy consumption, and determines costs/trends of the data center within and remote locations



- Avocent Data Center Planner**
 A visual infrastructure planning and management solution
- Reduces time to provision/install equipment
 - Enables upfront analysis on impact of changes before committing resources
 - Increases accuracy and reduces time required to complete infrastructure audits
 - Decreases risk of power outages due to human error



- Aperture® Software Suite**
- Optimizes energy, capital resources and process efficiency with risk-adjusted values for insight into actual resource load
 - Right-size physical infrastructure and extended data center lifespan with a holistic view of the infrastructure
 - Maintains a single, trusted source of information for the entire data center and its contents within a business service view

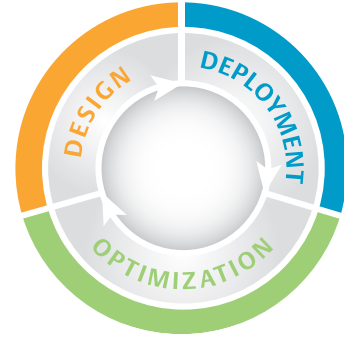


- Knürr Synergy®**
 Supports monitoring in any control room with consoles, monitoring walls and mobile charts
- Standards compliance and ergonomics
 - Manual height selection, even in the basic version
 - Modular construction

Infrastructure Services and Support

Emerson Network Power supports its Centers of Expertise with the largest global services organization in the industry, delivering:

- Design, installation and startup
- Warranty service
- Preventive maintenance
- 24/7 remote monitoring
- Emergency service
- Site audits



Design

Upfront planning is critical to the success of any facility. So is flexibility. That's why we offer an array of design services to help get your installation up and running and to assure it operates efficiently and effectively throughout its lifetime.

Deployment

We can build in the necessary flexibility today to assure you have the scalability you need to grow tomorrow.

Optimization

Optimization is making the most of your infrastructure. Emerson Network Power can provide optimized support for your day-to-day demands and your longer-term plans, particularly for energy savings.



Chloride LIFE.net

- Maximized system availability - real-time diagnosis and resolution of all possible operating anomalies
- Minimized downtime - expert engineer available 24/7
- Reduced operating costs - through preventative maintenance

1 AC Power

2 Infrastructure Management & Monitoring

3 Power Switching & Controls

4 Precision Cooling

5 Racks & Integrated Cabinets

6 Surge Protection

Ensuring The High Availability Of Mission-Critical Data And Applications.

Emerson Network Power, a business of Emerson (NYSE:EMR), is the global leader in enabling *Business-Critical Continuity™* from grid to chip for telecommunication networks, data centers, health care and industrial facilities. Emerson Network Power provides innovative solutions and expertise in areas including AC and DC power and precision cooling systems, embedded computing and power, integrated racks and enclosures, power switching and controls, infrastructure management, and connectivity. All solutions are supported globally by local Emerson Network Power service technicians.

Learn more about Emerson Network Power products and services at www.EmersonNetworkPower.com.

Locations

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Emerson Network Power

The global leader in enabling Business-Critical Continuity™.

- AC Power
- Embedded Computing
- Outside Plant
- Racks & Integrated Cabinets
- Connectivity
- Embedded Power
- Power Switching & Controls
- Services
- DC Power
- Infrastructure Management & Monitoring
- Precision Cooling
- Surge Protection