Innovation and efficiency are at the heart of information technology adoption. Energy efficiency, in particular, has grown into a strategy to streamline IT operations and related costs. Emerson Network Power understands the challenges of bringing together the right infrastructure to support your business. Since 1890, we have enabled our customers to address such challenges through leading edge technologies and best practices.

Let Emerson take on these challenges for you so you can instead focus on growing your business.

**Thermal Management**
Dynamic computer room air conditioning solutions protect sensitive servers and gear.

**LCD Console Trays**
Provides a variety of features that simplify and provide ease of access to servers, making software upgrades, troubleshooting and system monitoring convenient and less time consuming.

**Racks & Integrated Cabinets**
Advanced enclosure systems safeguard and manage IT and networking equipment.

**Rack Power Distribution Units**
Reliable and efficient data centre power distribution units provide basic distribution, remote monitoring and control at the receptacle level in data centre rack environments.

**AC Power/UPS**
Uninterruptible power, power distribution, and enclosure solutions keep IT systems running.

**Remote Control Management**
Converged management appliance that enables customers to remotely manage any device, in any location, from any vendor, at any time in a secure, centralized manner.
**AC Power / UPS**

**Liebert PSA**

Features and Benefits
- Boost and buck AVR to stabilize the input voltage
- Three to six battery-backed UPS outlets, depending on model size
- 2 to 2 surge-only outlets, differentiated by color
- USB communications / shutdown software and cable included
- Up to five minutes of battery backup time of full load
- RJ-45 port for data line surge protection
- 2 years warranty

Applications
- Desktop PCs
- Small Routers, Bridges and Hubs
- Point-of-Sale Terminals

**Liebert GXT3**

700VA to 3kVA; 5kVA to 10kVA; 10kVA (Tower Model)

Features and Benefits
- On-line double conversion UPS
- High output power factor (0.9)
- Intelligent for WEBSHARP management card
- 2 years warranty

Applications
- Network Computers
- Large Network Peripherals
- Network Storage Devices

**Liebert PSI**

Features and Benefits
- More than three (3) mins of internal battery backup time at 100% load
- Buck / boost automatic voltage regulation
- High 0.9 power factor
- Liebert MultiLink software
- 8 to 9 battery-backed outlets
- Rack / tower convertible with switchable display panel
- 2 years warranty

Applications
- Network Computers
- Servers
- Computer Rooms
- Network Storage Devices

**Liebert XNX**

Features and Benefits
- Best-in-class input current harmonic distortion of less than 3%
- Capability to handle 0.9 pf loads
- Stratified cooling techniques
- Versatile and simultaneous communication facilities
- Compact UPS footprints
- Capability to handle 100% unbalanced loading
- Provides up to 96% efficiency
- Parallelable up to four units

Applications
- Server Rooms and Mid-sized Data Centres
- Telecommunication (fixed, WLL & mobile) billing and reporting systems
- Networks (LAN, MAN & WAN)
- Industrial Process and Motion Automation for Medium-sized Plants
- Medical Diagnostic/Imaging Equipment

**AC Power / TVSS**

**ASCO * 200 Series**

- Utilized for switching between mains supply and generator supply
- With “Break Before Make”, ASCO 200 Series has a transfer time of 166ms 1/6th second
- Open Transition is used predominately for non critical transfers and has a lower cost entry point

**ASCO * 700 Series**

- Utilized for switching between mains supply and generator (without interruption)
- ‘Make before Break’ has a transfer maximum parallel time of 100ms (5 Cycles)
- Availability of bypass-isolation configuration which allows transfer switches to be inspected, tested, and maintained without any interruption of power to the load
- Suitable for live generator testing with actual site load, no requirement for load banks. Energy savings with peak-lowering may be achievable

**ASCO * 700 So Soft Load Series**

- Synchronizes and parallels two independent power sources (transformer to single generator application) without interrupting power flow
- Equipped with soft load protection Transducers and generator controls
- Offers closed transfer (bumpless) no break transfer and typically used for Peak Lopping in Co and Tri generation applications

**Basic PDU**

- Broad range of power distribution capacities
- Robust connectivity solutions package
- Designed to manage power from UPS to each computing and communications hardware
- Available in different power outputs, depending on technical parameter requirement
- Available in rackmount and zero-U form factors

**Managed PDU**

- Liebert MXP
- Extensive measurement functions (power, current, voltage and energy), with high measurement accuracy of up to 1%
- Provides compatible monitoring platform for Liebert MXP and Liebert MPX, offering seamless operation if deployed together
- Controls and manages individual receptacles; shuts down non-essential equipment during power outages
- Industry-leading operating temperature: up to 55°C
- Predicts over-current conditions before being critical
- Up to 4Liebert MXP/MPX can be controlled via one IP address

**Adaptive PDU**

- Liebert MPX
- The Liebert MPX is a modular PDU; input and output models can be flexibly configured as required
- Allows user to add individual hot-swappable modules for capacity as demand increases
- Controls and manages individual receptacles and or groups of loads and devices; shuts down non essential equipment during power outage
- Expanded branch overload protection, minimizes threat of cascading PDU overload
- Employes energy efficient receptacle control technology
- Output modules can be changed during running operation, no downtime

**AC Power / Rack Power Distribution Units**

**Liebert MicroPod**

- Power Output Distribution & Maintenance Bypass Switch

**Liebert MicroPod**

- Automatic Transfer Switch
- (10A/16A/32A)

**Liebert MicroPod**

- Liebert Accuvar
- Distribution Panel Surge Protection
**Thermal Management**

**Liebert DM**

**Variants:**
- Air Cooled / Water Cooled
- Chilled Water

**Key Features:**
- Energy saving mode available
- Adapts to different environments
- Low mean time to repair (MTTR)
- Standard RS485 port for monitoring
- Ultra wide ambient temperature range and multi-condenser configuration
- High sensible heat ratio with scroll compressor technology

**Applications:**
- Small and medium sized computer rooms
- UPS and battery rooms
- Outdoor electronic and communication equipment rooms
- Transformer stations, substations

**Liebert CRV**

**Key Features:**
- Precision cooling and humidity control
- Installs within the row of racks
- Features variable speed EC plug fans and variable capacity digital scroll compressor
- Operates efficiently with Liebert ICOM controls

**Benefits:**
- Horizontal air flow cooling design is suitable for non-raised or raised floors
- Air, water, glycol and chilled water systems available
- Adjustable airflow baffles maximise cooling to rack equipment, allowing the system to be positioned within the row or at the end of the row
- Multiple units communicate with each other to improve system performance and reduce energy consumption
- Up to 10 racks per cooling unit may be monitored to improve system performance and report rack temperatures

**Applications:**
- Installs at the ends or within the row of racks on non-raised or raised floor applications
- Ideal for hot/cold aisle configurations
- Optimal performance when used with SmartAisle system

**Liebert HPS**

**Key Features:**
- Efficient because of the effective air distribution reached through the displacement cooling concept
- Energy and space saving due to the high efficiency components and the compactness of the innovative freecooling version
- Extremely flexible due to the possibility of selecting among several versions

**Benefits:**
- Can be configured depending on the main application drivers (noise level, environmental conditions range etc.) and the desired options (freecooling, emergency freecooling, heating etc.)

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**Infrastructure Management**

**Avocent **

**Avocent ® LCD Console Tray**

**Key Features:**
- High quality 17”LCD (1280 x 1024)
- Keyboard with integrated touchpad pointing device
- USB pass-thru for convenient front-of-the-rack connection
- LCD console mount using 1U of rack space

**Key Benefits:**
- Eliminates the need for cumbersome and inefficient crash cart access
- Downtime can be reduced with immediately accessible monitor, keyboard and mouse at the rack
- Limited access to only those with physical access to the server room

**Avocent ® KVM Switch**

**Key Features:**
- Local Port: Support for USB and/or PS/2 user keyboards and mice
- Single Solution: Support for USB, PS/2, Sun and serial target devices in a single solution
- Space-Saving: CAT-5, thin cabeling saves space in the rack and allows up to a 100-foot distance between the server and the switch
- Intelligent Cabling: Server interface modules and integrated access cables automatically assign and retain unique server names for each attached server
- Powerful User Access Control: An administrator can grant KVM access to only certain users. The administrator can also limit KVM access to only specific targets on the switch

**Avocent ® Universal Management Gateway**

**Key Features and Benefits:**
- Comprehensive DCIM platform in a single pane of glass
- Convenient single U chassis – reduced rack space and footprint
- Complete connectivity (IPMI, SNMP, OPC, Modbus, BACnet, Velocity)
- Physical sensor aggregation
- Easy installation across various remote access technologies
- Up to 40 simultaneous KVM sessions
- Up to 1024 service processors; wide variety of servers managed
- Up to 40 full auto-sensing ports
- KVM and SPM capability per port (using the UMIQ-V2)
- Data collection – up to 10,000 data points per minute
- Real-time information across IT and facilities

**Avocent ® DView4 Software**

**Key Features:**
- Secure, remote, centralized data centre management
- Multi-device support
- Virtual media support
- Integrated solution for KVM and power control
- Simple, fast and reliable user interface
- Access service processor managers
- Notifications
- Scheduling
- Multi-platform support
- Failover authentication
- Flexible authentication/access control
- System/User logs
- Selectable encryption modes
- Exit macros
- DS zones

**Avocent ® Rack Power Manager**

**Key Features:**
- Measure and Track Power Costs – The Rack Power Manager calculates and compares cost across multiple cafes (rack, row, data centres or companies) to track cost over a period of time and also to measure the impact of any consolidation or expansion projects
- Review Historical Capacity and Consumption Reports – Plan for future expansion or new facilities more accurately based on real historical data rather than faceplate ratings or best-guess scenarios which result in overbuilding and lead to inflexibilities
- Protect Against Downtime – Help get a total reading on power usage for the data centre and set a maximum threshold of power usage. Set alerts to know when the threshold is reached or exceeded and allow time to make changes before there are actual problems
- Accurately Plan – Help IT know what electrical infrastructure to build into a new location or disaster recovery site. The design can be based on actual historical data rather than faceplate ratings or best-guess scenarios which result in overbuilding and lead to hard-to-correct inefficiencies

**Avocent ® Data Centre Planner**

**Key Features:**
- Inventory management
- Know the physical location and attributes of all the equipment in a data centre
- Search for assets by their characteristics and their physical location
- Reduce the amount of time required to complete mandatory audits
- Decrease unaligned inventory and avoid unnecessary maintenance costs
- Configuration management
- Simplify planning and management with a complete model of the environment
- Improve communication with a single source of truth for facilities and IT
- Reduce mean time to repair
- Capacity tracking
- Know the infrastructure capacities and align resources to meet the data centre requirements
- Right-size the infrastructure and decrease costs associated with over-provisioning and risks associated with under-provisioning
- Improve decision-making with comprehensive analytics
- Gain detailed insight into the infrastructure status and equipment managed
- Intuitive visual interface
- Enhance process efficiency and minimize system administration
- At-a-glance infrastructure status and predictive modeling
Mobile Lighting Tower
- 4000W, 4200 sq. metre coverage
- Two tier diesel emission compliant
- Sound-proof enclosure
- 9 metre hydraulic mast
- Lights can be individually switched
- Fork lift points, levelling system

Perkins Generator
- World-leading brand in electric power
- Quality Assurance
- Rigorous factory testing
- Up to 3,250 KVA capacity
- Long service life
- Safe, stable and reliable power

Cummins Generator
- World-leading brand in electric power
- Quality Assurance
- Rigorous factory testing
- Up to 3,250 KVA capacity
- Long service life
- Safe, stable and reliable power

Containerized Generator
- Efficient and easy transport of larger generators
- Customized designs available
- Sound proof material, fire-rated
- Shock absorbing mat under generator
- Standard fork lift positions
- Airflow management
- Multiple generators can reside inside

Silent Canopy Generator
- <65dBa on smaller gensets
- <75dBa on larger gensets
- Customized designs available
- Sound proof material
- Standard fork lift positions
- Patented design
- Rigorous factory testing
- Waterproof, dustproof

Automatic Transfer Switch (ATS)
- <65dBa on smaller gensets
- <75dBa on larger gensets
- Large range available
- Mechanical and electrical interlock
- Quality brand components used
- Patented design
- Rigorous factory testing
- Surge protected

Services
- Start up
  Guarantees that the UPS is running at optimum performance
- On-Site Labor
  Immediate access to on-site support whenever required
- Extended Warranty
  Extends the useful life of the equipment
- Preventive Maintenance
  Promotes higher reliability and reduces risk of downtime
- Comprehensive Maintenance
  Promotes peace of mind with equipment maintenance
- Data Centre Audit
  Provides a clear picture of the current status and health of the IT infrastructure compared with industry best practices.
- Battery Monitoring
  Assures that batteries are in good health, monitored on-line.
- Remote Monitoring Service
  Round the clock monitoring of the IT facility with the help of a monitoring expert.

Racks & Enclosures
Key Features:
- With 75% door perforation rate that enhances heat management
- Front and rear doors are perforated for cooling efficiency
- With additional blanking panel to separate cold and hot spots in the rack
- Combined integrated steel frame design
- With rack static load capacity of 1,300 KG
- Accessories available for cabling and air flow management
- Customized features for specific requirements in data centre

Racks & Enclosures