VERTIV.™

Liebert®

SPM™ 2.0
20kVA - 200kVA
Next Generation Power Distribution range for mission critical businesses

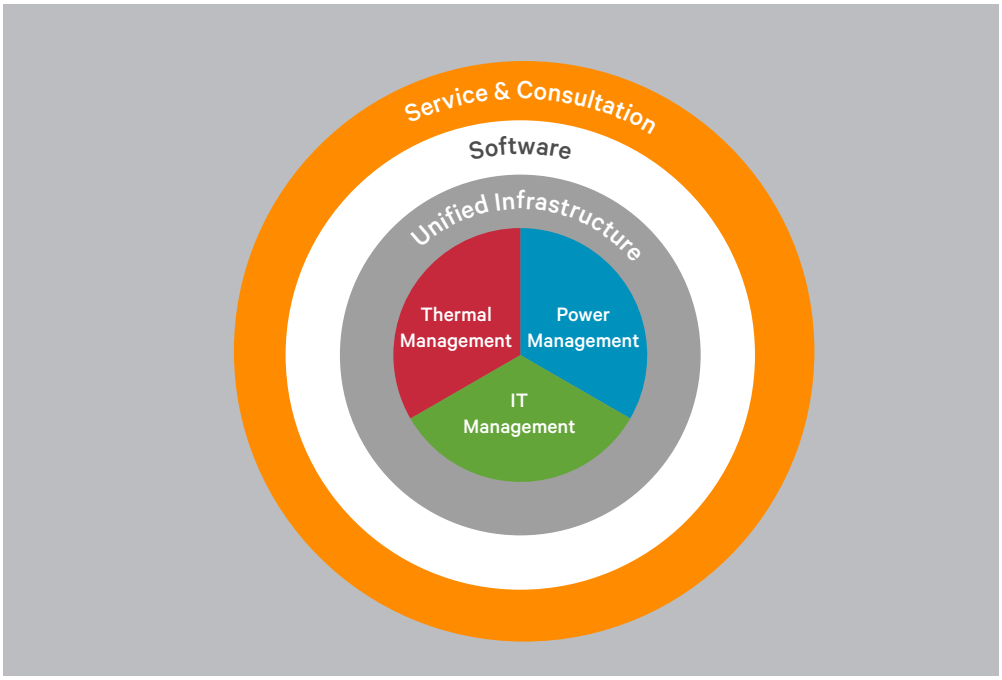
Vertiv, formerly Emerson Network Power, designs, builds, and services mission critical technologies that enable vital applications for data centers, communication networks, and commercial & industrial environments.

We support today's growing mobile and cloud computing markets with our portfolio of power, thermal and infrastructure management products, software and solutions, all complemented by our extensive global service network.

We help strengthen the world's most vital applications by bringing together global reach and local knowledge, and our decades-long heritage, including brands like Chloride, Liebert, NetSure, and Trellis.

Vertiv
Your Vision, our Passion

With a unique combination of industry expertise, technology, and resources, our mission is to support and power mission-critical technologies that drive possibility.



Chloride®

Our global industrial power solutions meet the most demanding technical specifications and provide safe, reliable power- no matter the challenge

Liebert®

Our global power and thermal management solutions are some of the world's most efficient and reliable power and cooling technologies

NetSure™

Our global intelligently engineered DC power systems deliver high availability, energy efficiency and scalability for converged networks

Trellis™

Our industry-leading software gives customers an integrated view of operations across IT and facilities resources, enabling better decisions that save time and money

Business Need

Studies show that 80% of all power-related downtime is caused by disruptions between the UPS and the critical load in data centers . Failures can happen because of human error, equipment failures, load faults, short circuits and any number of peculiar events. Probability says that your equipment will eventually fail, and that human error will happen.

Besides on top of that, Datacenter managers finding it tough to adapt in today's dynamic IT loads demands . Particularly, arranging the downtime of few seconds for power upgradation and maintenance has become much tougher during these days due to supreme dependency and criticality of load. Therefore, it becomes extremely important for power distribution system to live up to the dynamic needs of today's business goals

The Solution

Liebert SPM2.0 , The Next Generation distribution range

Liebert SPM 2.0 is best suited for today's dynamic change in modern IT loads. Its hot swappable distribution modules enable the customer to deploy, upgrade and manage their dynamic IT business requirements in a data centre as and when their business grows.

It greatly eliminates downtime and drastically reduces the deployment time too. Besides, manageability improves the system work efficiency to a very high extent and also eliminating the likelihood of human errors.

LIEBERT® SPM™2.0

The Next Generation Power Distribution Range For Mission Critical Businesses

1 **Intuitive Touch Screen Display:**

Display panoramic view of the critical Information more graphically to ease human-machine interaction; thus, makes maintenance simpler and reduces likelihood of human error.

2 **Dual Source**

Meeting the requirement of dual source servers while acquiring ZERO footprint requirement. Being placed and shielded separately thus increase the system reliability and shrink the space requirement.

3 **Top/ Bottom Cable Entry**

Facilitate false flooring and ceiling applications in the datacenter without any additional accessories.

4 **Phase Balancing**

Thanks to Modular construction, facilitating phase balancing in a trouble free fashion. Outgoing feeder can be moved among phases L1, L2 and L3 to distribute the loads equally .

5 **Hotswappable Scrabble Architecture**

Enables customer to upgrade and maintain their critical power distribution system safely and easily without power interruption. Scalable from 20 kVA to 200 kVA

Hot Swappable Outgoing Feeders 6

One module contains 18 sub-distribution feeders and each module can house 18 poles. Each modules supports combination of 1/3 pole MCBs. Such 8 Modules can be placed in single floor mounted rack.

Branch Circuit Monitoring System (BCMS)

High accuracy, high speed data acquisition and diagnostic system provide accumulated information, configurable alarms at sub distribution level.

Capacity Management 8

System provides panoramic view of load that helps in planning the load management efficiently.

Communication Optional 9

It can be integrated with building management system through MODBUS RTU/ MODBUS TCP or SNMP communication protocol.

Optional Accessories 10

A host of accessories available with SPM2.0

1. **Built in output Isolation transformer** along with soft-start feature available in k-13, and k-20 variants.

2. **Transient Voltage Surge Suppression (TVSS)** is available for increased protection from damaging voltage surges.

LIEBERT® SPM™2.0

You Have To Know There Is A Problem Before You Can Correct The Problem

Liebert SPM2.0 features a high resolution and high sensitivity touch screen display designed based on the Cortex A8 processor, allowing for user friendly interaction. Menu-driven LCD allows the user to easily browse the input and output parameters, acquire current status and alarm messages, and perform corresponding parameter settings of the Liebert SPM2.0. It can display the real time Power-flow diagram showing the system status and alarm messages. It can store up to 10000 historical events that can be easily retrieved to realize the root cause of faults.

Energy Management from Grid to chip level.

Comprehensive energy management attributes panoramic view of entire power-flow from main incomer to individual sub-feeders.

Power monitoring of sources:
Power path status via animated single-line mimic display shows the current status of main source, source breaker and distribution modules. The individual source Information such as voltage, current, power, energy and harmonics. gives clear cut picture of power distribution system.

Feeder level Monitoring:
Shows real time feeder information such as Voltage, Current, harmonics and Power Monitoring (kVA, kW, kVAR & PF).

Power Trending :
Displays the historical voltage, current, power, energy consumption and environmental trending of each branch and feeder by a week, Month & Year. Also has the facility to generate report for this.

Exhaustive Event Logger:
It can display 10000 events from the source to feeder for configured alarms can that prevent the failure of system from overload and environmental conditions

Liebert SPM2.0Technical Specifications

Capacity (kVA)	20	40	60	80	100	120	160	200
Main Parameters Capacity								
Input	380 V; 50 Hz; 3 phase, 5 wires							
Output	Single phase, 3 wires; 3 phase, 5 wires							
Grounding	TN-S							
Power distribution	Flexible configuration of maximum 144 no.							
Breaker Parameters								
Input Breaker	32 A	63 A	100 A	125 A	160 A	200 A	250 A	320 A / 400 A
Output Shunt Breaker – Recommended	18 branches, 10 A, single phase		72 branches, 16 A, single phase		84 branches, 32 A, single phase			108 branches, 32 A, single phase
Output Shunt Breaker – Maximum	36 branches, customized capacity		90 branches, customized capacity		108 branches, customized capacity		144 branches, customized capacity	
Electrical Parameters								
Rated Insulation Voltage	50 Hz / 60 Hz, 500 Vac							
Rated Frequency	50 Hz / 60 Hz							
Operating Voltage	380 / 400 / 415 Vac							
Protection Level	IP20/IP30							
Environmental Parameters								
Ambient Temperature	-5 °C ~ +40 °C							
Relative Humidity	Not more than 50 %RH at a temperature up tp +40 °C. Higher RH is allowed at a lower temperature, for example, 90 % RH +20C °							
Altitude	≤ 2000 m							
Mechanical Parameters								
Dimensions (W x D x H)(mm)	600 x 1100 x 2000							
Weight	300 kg		320 kg		380 kg		450 kg	

**Specifications are subject to change without any prior notification*

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