VERTIV.

Liebert® APT™

Adaptive and Insightful

Power-train

Enabling Tomorrow's

CRITICAL EDGE INFRASTRUCTURE

We helped some of the largest names in the industry bring new capacity online faster and at a lower cost when search and social media increased demand for storage and computing.

Protecting your critical technologies takes more than just great software and equipment. It takes a level of experience that only comes from years of finding solutions when the industry needed them most. We were the first to protect mainframes with precision cooling systems.

And now as challenges and demands grow, we continue to find better ways to help you strengthen your most vital applications. Formerly the Network Power business of Emerson, we've brought together the most trusted and experienced names in critical infrastructure.

We were the first to introduce an integrated enclosure system to distributed networks.

Complemented by a network of nearly 250 service centers worldwide. It's a combination of experience and resources that allow us to better adapt to what's needed, anticipate what's next and continue to find solutions in ways other companies simply can't.

Our portfolio spans power, thermal and infrastructure management products, software and solutions.

In today's era where mission-critical business continuity is vital, a dynamic business environment imposes massive challenges to facility managers. There is a need for a fast, responsive approach that will reduce complexities through a single point of ownership. Lower TCO with reduced up-front capital costs can be achieved by a single OEM methodology as the onsite work is minimized and there are fewer operational disruptions, not to mention shortening of the planning periods and reduced capital outlay.

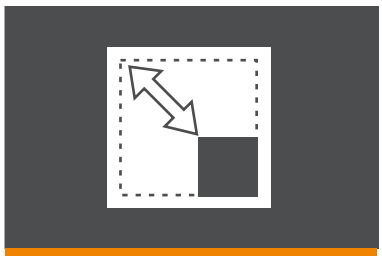
Having a right-sized infrastructure with modularity allows critical power and infra management needs to be sized to meet your mechanical and electrical loads. Coupled with rapid deployment, it also accounts for a leaner cost structure through better utilization and scalability.

Standardized, factory-fitted, and tested infrastructure also means lesser components and even lesser staff requirements for its upkeep. Another imperative factor is high availability with network-agnostic and user rights-driven remote management along with an extensive emergency coverage that would hold you in good stead for years to come.

Liebert® APT™- Based on Superior Engineering

The Liebert® APT™ is a converged power infrastructure from Vertiv, which has a streamlined Input/Output Switchgear, UPS, and a superlative Power Train Manager - all in One box. Complied with the highest degree of quality and safety, it is the complete solution for your power needs.

The complete solution is delivered to the site, resulting in minimal installation and deployment time. A single point of accountability that takes the guesswork out by creating greater reliability and increasing the operating costs efficiencies, thereby giving you ultimate peace of mind.



Compact Design with Space Saving up to 30%

Integrated Monitoring System

Secure & Safe

Economical & Efficient

Rapidly Deployable & Scalable

Resilient & Highly Available

THE PATH TO A HIGHLY COMPACT & RELIABLE ELECTRICAL ECOSYSTEM

Rear View

Switchgear Assembly

Safe, Reliable, and Modular power distribution technology coupled with intelligence offers complete end-to-end protection to your critical loads.

Front View

Power Train Manager (PTM)

Integrated Monitoring & Management system which not only brings simplicity & agility, but also embraces a top-notch diagnostic system, that makes the electric ecosystem even more reliable, helps prevent failures, and reduces the operational cost significantly.

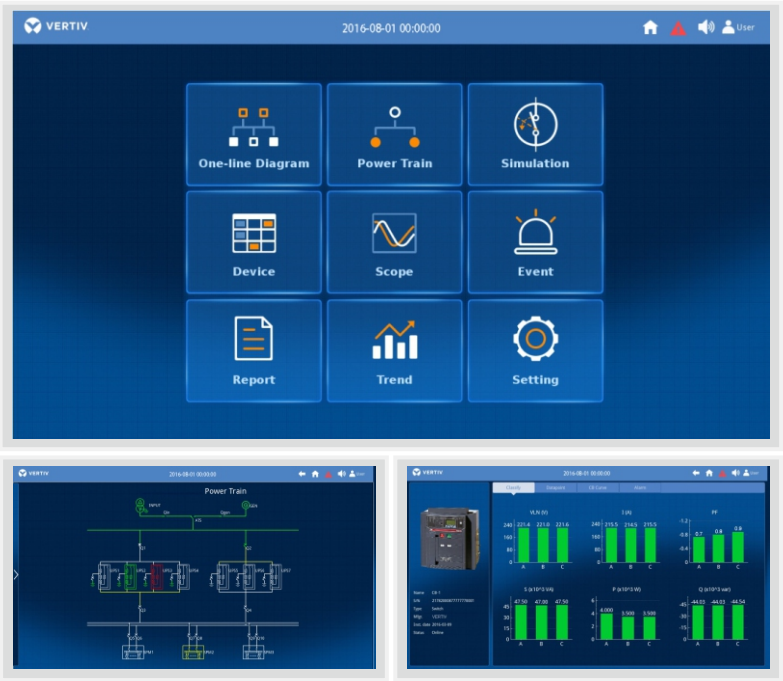
UPS

The Liebert® UPS promises reliable, efficient, and economical operation with top-notch elasticity and modular scalability. Offers excellent dynamic performance, with the ability to handle virtually any input condition while still providing computer grade output to critical loads.

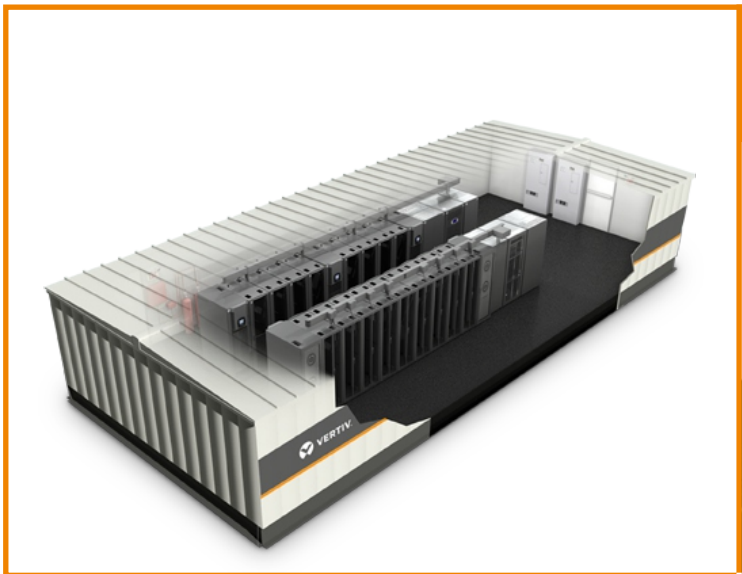
Power Train Manager -
A single console for Power Ecosystem Monitoring & Management

PTM empowers you to understand the current status, manage loads, remotely monitor, and be aware of your company's utility source and on-site power. Ultimately, it gives you the Power to know & the Power to do at a distribution level. It eradicates the need to go to individual feeders to know the status and is notches above being a standard monitoring and control system thereby helping you improve reliability, diagnose faults in a much better way and bring premium management value.

- Dynamic & Visual Single line diagram
- User friendly navigation
- Feeder-wise fault diagnostic facility
- Built-in real-time Oscilloscope
- User-configurable alarms
- Facilitates selective coordination of protective devices
- Calculates & Indicates PUE status
- Power & Energy historical trends
- Simulation facility
- Enables accurate forensic analysis
- Online Reports Generation Facility
- Integrated Remote monitoring function



Applications



Containerized/Traditional Datacenter

Manufacturing /Industrial

Technical Specifications

Technical Parameters	
Input voltage & frequency range	Voltage : 380/400/415VAC, -40% to +25%; Frequency: 40-70Hz
Nominal Output voltage & frequency	380/400/415 VAC ; 50 or 60Hz
Output voltage Stability*	+/-1%
Battery voltage	365-630VDC
Input Power Factor	Unity
Output Power Factor	Unity
Double Conversion mode efficiency*	Up to 96.5%
Eco Mode efficiency*	99%
Capacity	600kW (12x 50KW) per frame
Parallel Capacity	Up to 4 frames (4x600kW=2.4MW)
Bus Bar	Main AC: 4-pole (100% N) up to 6300A ; AC output: 4-pole(100% N) up to 6300A
IEC 61439-1/-2	Low-voltage switchgear and controlgear assemblies; Part1: General rules; Part 2: Power switchgear and controlgear assemblies
IEC TR 61641	Guide for testing under conditions of arcing due to internal fault
IEC 60950-1	Information technology Equipment -Safety; Part 1: General requirements
IEC 62040-1/-2/-3	Uninterruptible Power Systems (UPS) ; Part 1: General and safety requirements for UPS ; Part 2: Electromagnetic compatibility (EMC) ; Part 3: Method of specifying the performance and test requirements

* conditions apply

Reap the benefits of a Unified solution

- Automatically monitors & helps respond to events to ensure availability
- Gain deep insight into capacity to maximize usage and defer capital expense
- Improve operating margins with accurate planning and execution
- Model the effect of change to enhance availability & performance
- Increase the flexibility and resilience of the power systems with real-time, trend, and historical change tracking
- Optimize processes & workload management with a complete view of the power assets
- Support business model shifts & growth with accurate insight into the current usage and model the impact of change

For the ultimate in Infrastructure Power systems, redundancy, monitoring & control, and scalability, choose Adaptive Power-Train from Vertiv - Liebert® APT™

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