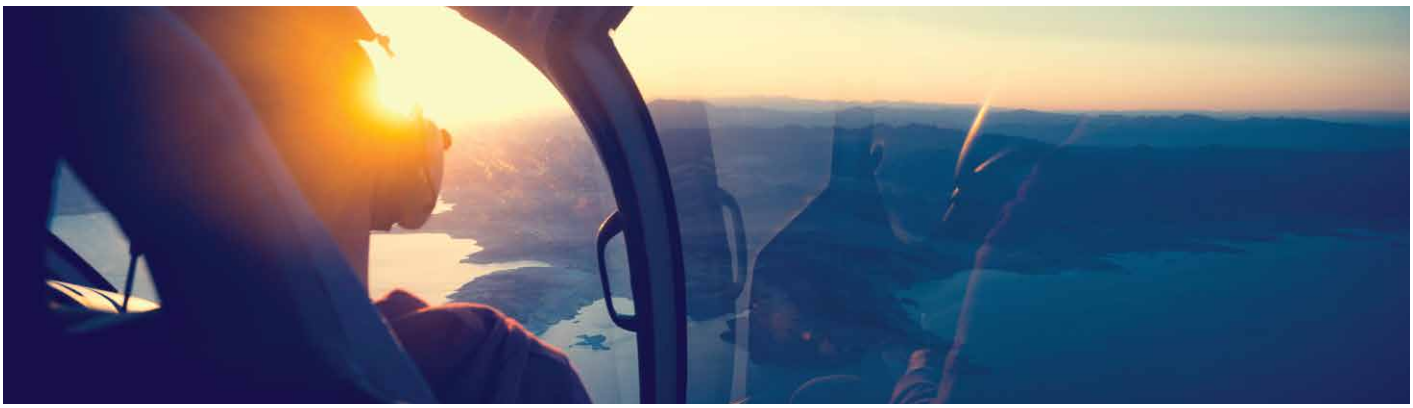
VERTIV.

Liebert® APM™

400kW - 600kW
Efficient, Modular & Reliable Power Solution For Mission Critical Applications

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 Vertiv, 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.

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With the advent of technology, increasing power demands, and scaling out of the ever expanding IT infrastructure, availability is a prime factor. Business continuity is vital and companies cannot afford downtime for their critical systems or waste time recovering the systems after a disruption.

Scalability too is core to the data centers in order to keep pace with the increasing capacity. This calls for a holistic approach and an urgent need to cater to the specific requirements mentioned above.

The Liebert APM™ UPS series is a transformer-free, on-line intuitive system that offers peak, top-notch availability and enables you to quickly increase the capacity without powering down or compromising on the connected equipment; all in a minimal footprint.

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FEATURES AND BENEFITS

Ultra-high availability

- User configurable internal redundancy levels
- Eliminates Single Point of Failure
- Reduces MTTR (Mean Time To Repair) due to Hot- Swap design

Energy Efficient and Superior Performance

- Delivers double conversion efficiency up to 96.5% and eco mode efficiency up to 99.1%.

24/7 Remote Diagnostic Service (Optional)

- Failure prediction
- Data Analysis for trend detection
- Vital system parameters inspection
- Improved first visit fix rates
- Superior asset management
- Modbus, Unity/SIC card, and Relay Card Compatibility

Flex Power Technology

- Display high degree of adaptability for continuous optimization and design flexibility
- Distributed intelligence and Scalable power in a common assembly
- Pay-as-you-grow deployment by configuration of a completely redundant power system
- Scalable up to 2.4MW
- Modular Design made with a futuristic perspective

Energy Efficient and Superior Performance

- Easy accessibility from the front for installation and maintenance
- Modular Hot Swap design
- Eliminates the need to dismantle or shutdown the system for serviceability
- Compact Footprint
- Standard Top/Bottom cable entry

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In summary, the transformer-less design of APM™ UPS series provides protection from the massive range of power irregularities. The results include unmatched efficiency, usability, and space savings.

Thus Vertiv's APM™ UPS 600 kVA is the ultimate combination of streamlined flexibility, availability, sustainability, and modular architecture that will solve not only the present but also the futuristic needs in a compact footprint.

Therefore, adhering to the "Efficiency without Compromise" paradigm, Liebert APM™ UPS series is a complete power protection solution that helps to achieve maximum optimization of the data center infrastructure around design, operating, and management proficiencies while maintaining or improving availability.

1. Hot Swappable Power Modules (50kW) Assembly
2. Monitoring Interface Ports
3. Input, Output, Bypass & M. Bypass Switch Assembly
4. Hot Swappable Static Bypass Module Assembly
5. Hot Swappable Power Modules (50kW) Assembly

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Specifications

Nominal Ratings(kVA/kW)	400-600
Input	
Nominal input voltage(V)	380/400/415 (three-phase and sharing neutral with bypass input)
Input voltage range (V)	305~478VAC, 228~304VAC with linear derating up to 70% load
Nominal input frequency(Hz)	50/60
Input frequency range(Hz)	40-70
Input power factor(kW/kVA)	1
Battery	
Float Voltage	2.25V/cell
Temperature compensation (mV/°C/cell)	-3.0 (selectable from 0 to -5.0 around 25°C or 30°C, or inhibit)
Ripple voltage (%V float)	1
Boost Voltage	2.35V/cell
Output	
Nominal output voltage (V)	380/400/415
Nominal output frequency (Hz)	50/60
Inverter overload capacity	110% for 60 mins; 125% 10mins; 150% for 1 min;>150% for 200ms
THDv with 100% linear load (%)	1%
Frequency Slew Rate (Hz/s)	0.6
Efficiency	
Online mode efficiency	Up to 96.5%
ECO mode efficiency	Up to 99.1%
Dimensions and weight	
Dimensions (W x D x H) mm	1800 x 1000 x 2000
Weight (Net weight)	928kg - 1100kg
General	
Noise at 1 m dB (A)	<70
Altitude	=1500; derate power by 1% per 100m between 1500-3000m
Relative humidity	0-9.5%RH, non condensing
Storage temperature	-25 to 55 °C
Operating temperature	0 to 40 °C
General and safety requirements for UPS	IEC 62040-1
EMC requirements for UPS	IEC 62040-2
UPS classification according to IEC 62040-3	VFI-SS-111
Color	Black ZP7021
Protection degree, IEC(60529)	IP 20

*Class C3 is standard whereas class C2 is optional
Specifications are subject to change without any prior notification