



Vertiv™ Liebert® EXM2

100 to 250 kW

Highly Reliable and Efficient UPS
designed for critical power protection



About Vertiv

Vertiv brings together hardware, software, analytics, and ongoing services to enable its customers' vital applications run continuously, perform optimally and grow with their business needs. Vertiv solves the most important challenges faced by today's data centers, communication networks, and commercial and industrial facilities with a portfolio of power, cooling, and IT infrastructure solutions and services that extends from the cloud to the edge of the network. Headquartered in Columbus, Ohio, USA, Vertiv employs around 31,000 people and does business in more than 130 countries. For more information, and for the latest news and content from Vertiv, visit Vertiv.com.

OUR PURPOSE

We believe there is a better way to meet the world's accelerating demand for data - one driven by passion and innovation.

Global presence, local expertise

Headquartered in Westerville, Ohio, USA, Vertiv does business in more than 130 countries.



● Americas

Manufacturing locations: 9
Service centers: 170+
Service field engineers: ~1,750
Technical support/response: ~120
Customer experience centers/labs: 4

● Europe, Middle East, and Africa

Manufacturing locations: 9
Service centers: 60+
Service field engineers: ~650
Technical support/response: ~130
Customer experience centers/labs: 12

● Asia Pacific

Manufacturing locations: 6
Service centers: 80+
Service field engineers: ~1,600
Technical support/response: ~50
Customer experience centers/labs: 11



Vertiv™ Liebert® EXM2

At Vertiv we believe that being mindful of product design, development, use, and disposal are important to the longevity of our industry.

Checkout these environmentally conscious features of the Vertiv Liebert EXM2:

- Saves cost with up to 98.8% efficiency in Dynamic Online mode compared to average industry standard of 96.5% efficiency
- Up to 97% efficient when using double conversion mode
- Can sustain high ambient temperatures up to 50 °C

Highlights

- Power Capacity: 100, 120, 160, 200 and 250 kVA/kW
- Three modes of operation to boost TCO and performance
- Maximum efficiency in the Mid-size range: Up to 98.8% in Dynamic online mode and Up to 97% in Double conversion mode
- Diverse application scenarios: In-Row, Room and Against-the-wall
- Flexible battery configuration: Vertiv™ EnergyCore Lithium-Ion Batteries compatibility & adapts to two-wire connection
- Symmetrical Power Factor (0.5 leading to 0.5 lagging)
- Scalable in parallel up to 1.5 MW
- High ambient temperature up to 50 °C with auto-derating above 40 °C
- Reliability boosters: Robust air channels, PCBs embedded with conformal coating
- Seismic compliant (with optional kit)
- AC input phase reversal correction

Vertiv™ Liebert® EXM2, The Next Generation Mid-size UPS for Mission-critical Applications



Vertiv™ Liebert® EXM2 drives its evolution from the flagship Vertiv™ Liebert® EXM/Vertiv™ Liebert® NXC which has been widely recognized as proven and highly stable performing UPS in its range and has been supporting over thousands of critical sites across the globe. Backed by dedicated research of Vertiv experts, Vertiv Liebert EXM2 is poised to lead in the industry with technological advancements implementing all the next-generation attributes. Machine learning-based **three modes of energy operation deliver superior energy credentials and support maximum availability.**

Its extraordinary Double conversion efficiency up to 97% delivers remarkable operational cost savings. Our proven Dynamic online mode delivers efficiency up to 98.8% whilst compensates for load THDi, PF, mains sags and swells, providing fast transfer output performance. On top of this, Vertiv Liebert EXM2 adapts to a range of infrastructure conditions including **Lithium-ion battery compatibility and supports the leading power factor needs** of modern server loads. Operates seamlessly up to 40 °C and **can tolerate high ambient temperature up to 50 °C** with auto-derating.

Healthcare



- Health Diagnostic Equipments
- Datacenter
- CPSS

Railway/Metro



- Communication System
- Automatic Fare Collection
- CPSS
- Operational Control Center

Enterprises



- Datacenter
- CPSS
- Work stations

Light Industries



- Critical Process Equipments
- Datacenter
- CPSS
- Work stations



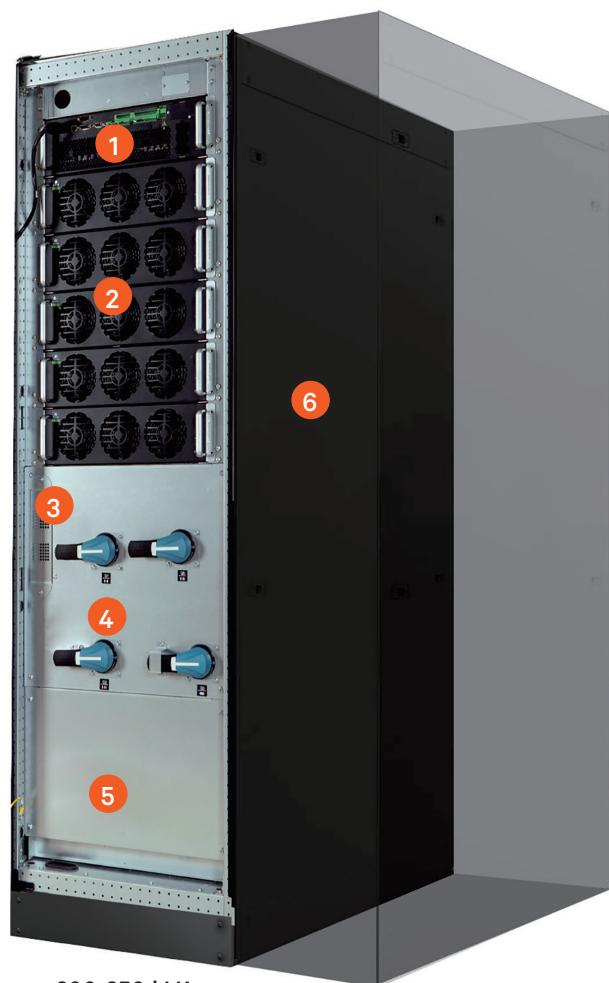
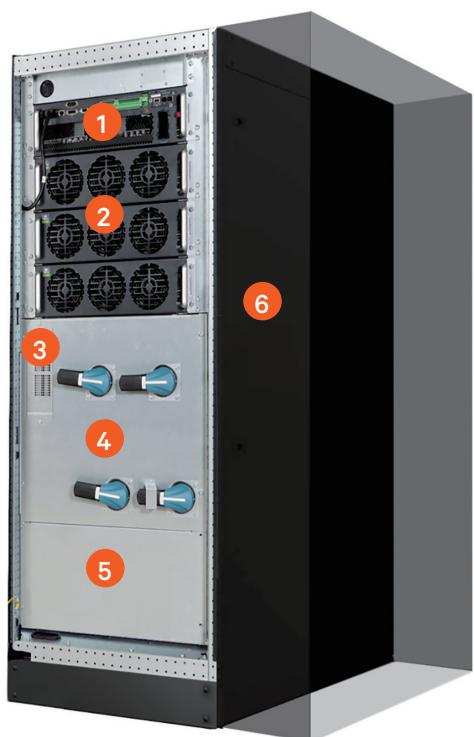
Flexible And Optimized Design

Aesthetic Design Adapts Well Into Your Infrastructural Needs

- Ideal for In-the-Row server rack applications
- Suitable to be installed against the wall using optional top fan kit
- Suitable to be installed adjacent to the wall
- **Compact and lightweight footprint** saves significant white floor space



- 1 Bypass Section
- 2 Power Section
- 3 Integrated Surge Protection
- 4 Switch Assembly
- 5 Cable Termination Section (Bottom as standard)
- 6 Top cable Termination panel (Optional)



Vertiv™ Liebert® EXM2
100-160 kVA

200-250 kVA



Highly Efficient and Lowest TCO

Vertiv™ Liebert® EXM2 delivers an **outstanding double conversion efficiency of up to 97%**, which further increases up to 98.8% with the Dynamic online mode, consequently **reducing operating costs and energy dissipation (kW)** to a minimum. This significantly minimizes the consumption of the cooling system, providing an overall TCO reduction and rapid payback time.

Furthermore, the Vertiv Liebert EXM2 can optimize efficiency at partial load thereby attaining additional cost savings through the intelligent paralleling feature.

The efficiency and electricity cost savings of Vertiv Liebert EXM2 can be attributed to:

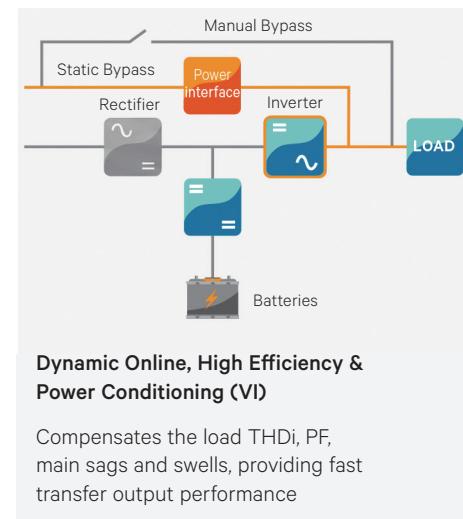
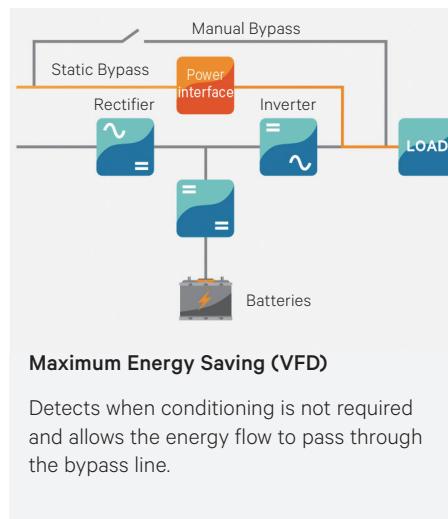
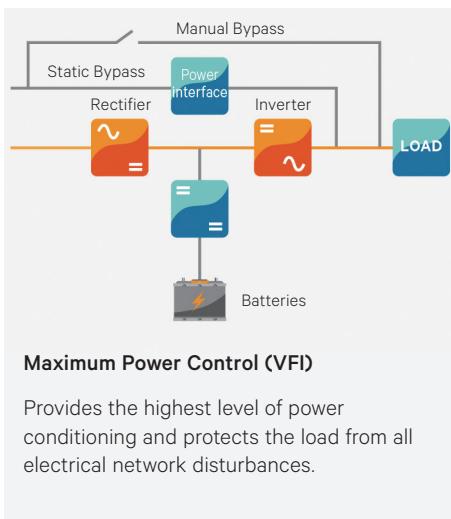
- Latest generation IGBT
- Adoption of a three-level T-type converter topology
- DC controlled fan speed
- Intelligent paralleling mode
- Advanced digital technology and fast transfer

The seamless activation of Vertiv Liebert EXM2's functioning modes enables the **highest level of efficiency without compromising power quality and availability**.

The Dynamic online mode provides Class 1 output performance under most stringent conditions:

- Network fault (voltage variation, high/ low impedance mains failures)
- Load fault (short circuit downstream of the UPS)
- Type of load connected (PDU transformer)

The unit discriminates between various interferences and responds rapidly, while also maintaining compatibility with downstream equipment (such as Transformers, STS, mechanical loads, etc).



Dynamic online mode: No more availability trade off with efficiency

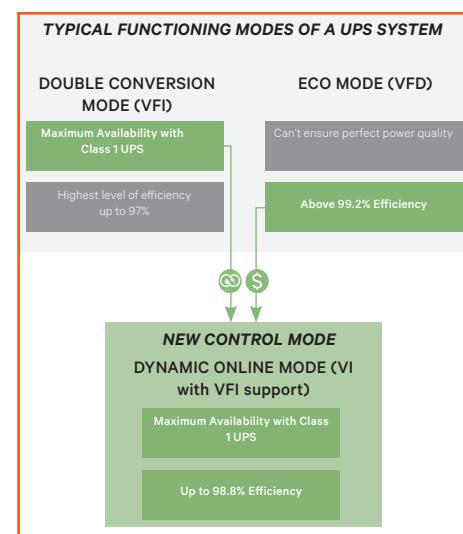
Dynamic online mode is the latest high efficiency mode of operation offered by Vertiv, developed for those who do not want to trade off any level of availability for incremental gains in efficiency.

Dynamic online mode enables **operating efficiency up to 98.8% without sacrificing availability**.

In fact, while in this mode, the inverter can instantaneously assume the load and maintain the output voltage within the IEC 62040 Class 1 specification, thus offering the same level of availability

typically achieved in a double conversion operating mode.

Dynamic online mode is therefore able to combine the superior availability of a Double conversion operating mode with the excellent energy cost savings of a high efficiency mode for a reduced total cost of ownership.





Robust & Proven Design

Innovative Internal Air Channel

Designed in such a way that internal hot air drives directly towards heat sink without distressing the PCB's and other internal sensitive circuits, **improving the service life of components and UPS reliability.**

Conformal Coating

Applied as standard feature for all PCBs in Vertiv™ Liebert® EXM2. Its primary purpose is to **protect electronics from environmental elements and corrosion.** The coating acts as both a protective shield and insulative material for a PCB.

Higher Short Circuit Handling Capacity

During the short circuit, load will be transferred via bypass to clear higher short circuit currents. Fuse is considered optionally to clear short circuit capacity of **up to 65 kA.**

Tolerates Higher Ambient Temperatures

Internal components and circuitry of Vertiv Liebert EXM2 are designed to **seamlessly operate up to 40 °C** without any capacity impact and **can further sustain high ambient temperature up to 50 °C with auto-derating.**

Integrated Backfeed Protection

Backfeed protection prevents any potential risk from electric shock on the UPS mains and bypass input AC terminals in the event of a failure of the rectifier and bypass static switch SCR. The control circuit includes output dry contacts that activates an internal isolating device (optional) upon backfeed detection.

AC input phase reversal correction:

Enables continuous inverter operation without switching to battery during phase reversal, eliminating the need for an external accessory kit and enhancing system efficiency and reliability.

Scalable up to 1.5 MW

6 units of intelligent paralleling help to achieve **maximum capacity up to 1.5 MW.** Comes with Integrated Parallel and LBS communication ports, and allow a single touch to initiate inverter ON/OFF for all parallel connected UPS system.

Symmetrical Power Factor Compatibility

Vertiv Liebert EXM2 is fully adapted to meet diverse system requirements in terms of power capacity and redundancy allowing different system designs.

- Output Power Factor up to 1
- No power derating from 0.5 lagging to 0.5 leading
- Optimum space/power ratio

Intelligent Paralleling



15% ➔

Six units at 15% load each = up to 96% efficiency



30% ➔

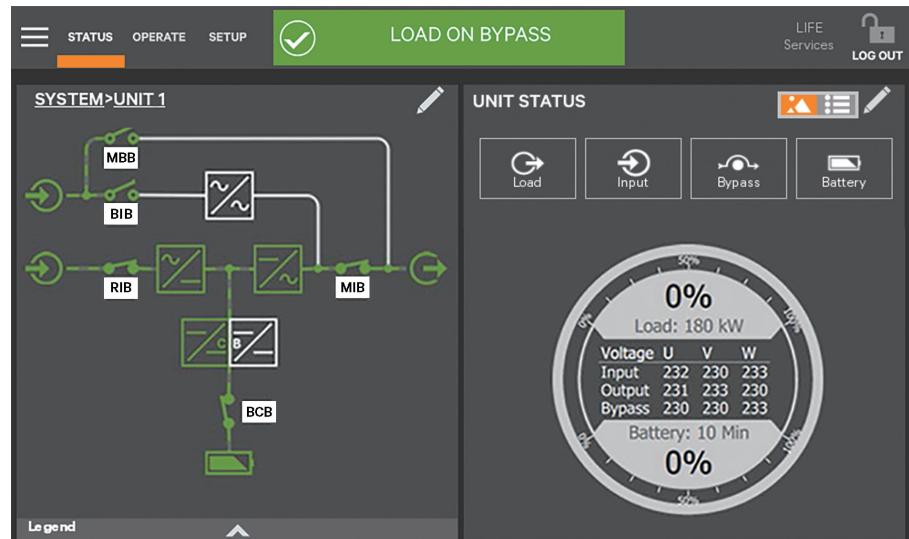
Vertiv™ Liebert® EXM2 Intelligent Paralleling: three units at 30% load each = up to 96.8% efficiency



User Interface and Advanced Diagnostic

Vertiv™ Liebert® EXM2 makes your mission-critical space a peaceful place through its **advanced diagnostic capability**, measuring and logging, enhanced event analysis as well as an intelligent colored multi-language touch screen display.

Vertiv Liebert EXM2 advanced DSP control platform together with the patented Vector Control technology enables increased performance of three-level power converters and real time control of output power quality, **supporting continuous operation and premium protection for your business.**



Bypass Input

Voltage and frequency measurements.

Mains Input

Current, voltage and frequency values of the three input phases.

Warning/fault

Alerts of anomalies on bypass, rectifier, inverter, booster/charger, battery and load.

Events log

Date and time of important UPS events, alarms and other warnings.

Measurements

Voltage, current and frequency values of each internal functional block.

Battery

Status/values including temperature, cell voltage, capacity run time and testing.

Vertiv™ LIFE™ Services

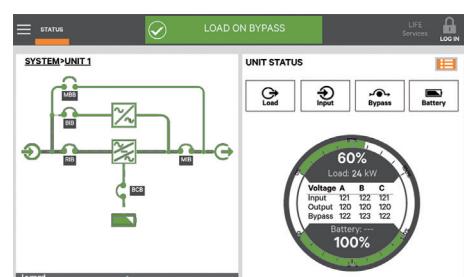
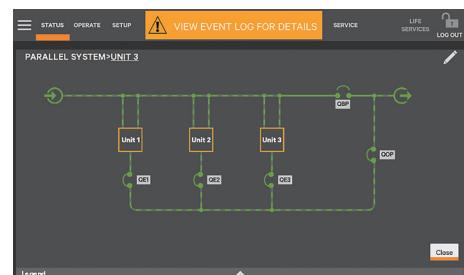
Status of Vertiv LIFE Services connections and calls.

Tools

LCD settings and language selection.

Output

Voltage, current, frequency, and battery measurements.

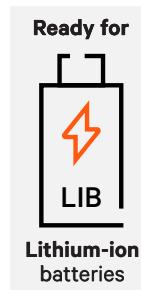


Vertiv™ EnergyCore Lithium-Ion Battery compatibility:

The Vertiv™ EnergyCore Battery System brings efficient, space-saving, and long-lasting energy storage to UPS and critical infrastructure applications. With a focus on reliability and modernization, it helps organizations meet today's performance and sustainability goals.

- UL 1973
- UL 9540A Tested
- UL 9540

Qualified for immediate use with most current and legacy three phase Vertiv™ Liebert® UPS systems.



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Lithium-ion Battery Compatibility

The Vertiv™ Liebert® EXM2 is powered by the **most powerful and intelligent battery charger** that enables **seamless integration with any Lithium-ion chemistry batteries**.



Vertiv™ HPL lithium-ion cabinet battery with Vertiv™ Liebert® EXM2 UPS

Reduce Battery Replacement Cycles

VRLA	→	3-5 years
LIB	→	10-15 years

VRLA = valve regulated lead-acid
LIB = data center lithium-ion

Considering the benefits lithium-ion batteries provide over traditional battery deployments. Not only do users enjoy the longer life, more cycles and fewer replacements, they also benefit from the compact, smaller size and lower weight. Plus, the higher operating temperature and lower maintenance add to the savings.

All these advantages directly impact IT facilities to drive an impressive total cost of ownership experience.

Vertiv leverages its DNA in critical systems to deliver a lithium-ion battery system that is integrated seamlessly into the power chain.

Our capabilities and processes come together to optimize the UPS, batteries, monitoring, management, service and support offerings are orchestrated for delivering on our customer expectations.

Fewer Facility Disruptions
Lower Total Cost of Ownership

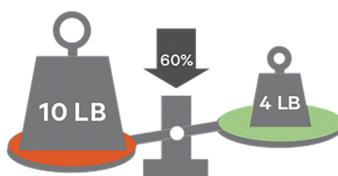
Benefits of Lithium-ion Batteries

Longer life



VRLA LIB

Weighs less



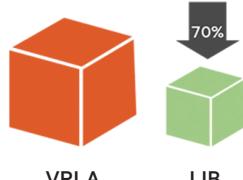
VRLA LIB

More cycles



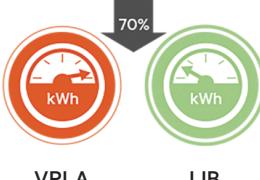
LEAD ACID LIB

Saves space



VRLA LIB

Saves cooling cost



VRLA LIB

Battery Management System



EXTERNAL LEAD ACID BUILT-IN LIB



Flexible Monitoring & Management Options

Hardware Connectivity

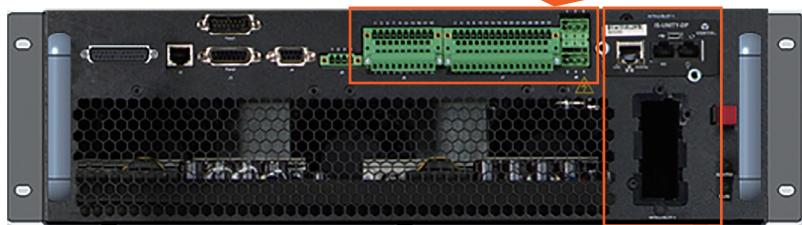
Vertiv™ Liebert® EXM2 allows for the monitoring and control of networked UPS through different protocol options:

The integration of UPS with Building Monitoring and Automation Systems via MODBUS RTU, MODBUS/TCP Protocols and environment sensors.

The integration with synoptic panels via a dry contact board.

User configurable Input and Output contacts

- Monitoring external breakers
- Monitoring "on generator" signal
- Permissive signal for SKRU
- Trip external breakers



IS-UNITY-DP CARD

- Supports two simultaneous third party protocols (SNMP, Modbus TCP or RTU (485), BACNet IP or MSTP (485))
- WEB browser
- Email notifications
- SMS text messages
- SN series sensor support
- Vertiv™ LIFE™ services



IS-UNITY-LIFE CARD

- SNMP
- Email & SMS notifications (through LIFE Server)
- Vertiv™ LIFE™ services



IS-RELAY CARD

- Dry contact alarm notification



Designed for Easy Service and Maintenance



Designed for ease of service

Vertiv™ Liebert® EXM2 is designed to allow access to cable terminal blocks, switches and all the replaceable components including power & bypass power modules and communications from the front side for both installation and maintenance purposes.

Modular Design and Construction

Common building blocks sub-assembly for an easy on-site replacement and reduced MTTR.

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VERTIV™ LIFE™ Services Remote Diagnostic and Preventive Monitoring

Vertiv's service program is designed to help keep your critical power protection system maintained in an optimum state of readiness at all times.

The Vertiv™ LIFE™ Services remote diagnostic and preventive monitoring service provides early warning of UPS conditions and out of tolerances. This allows effective proactive maintenance, fast incident response and remote troubleshooting, giving customers enhanced security and peace of mind. With Vertiv LIFE Services you will benefit from:

Uptime Assurance

Constant monitoring of UPS parameters, thus maximizing the system's availability.

First Time Fix Rate

Proactive monitoring and data measuring help verify that when our customer engineers are dispatched on-site, they arrive prepared for first time resolution.

Proactive Analysis

From Vertiv LIFE Service centers, our experts proactively analyze the data and trends of your equipment, to recommend actions to optimize their performance.

Minimized Total Cost of Ownership of Your Equipment

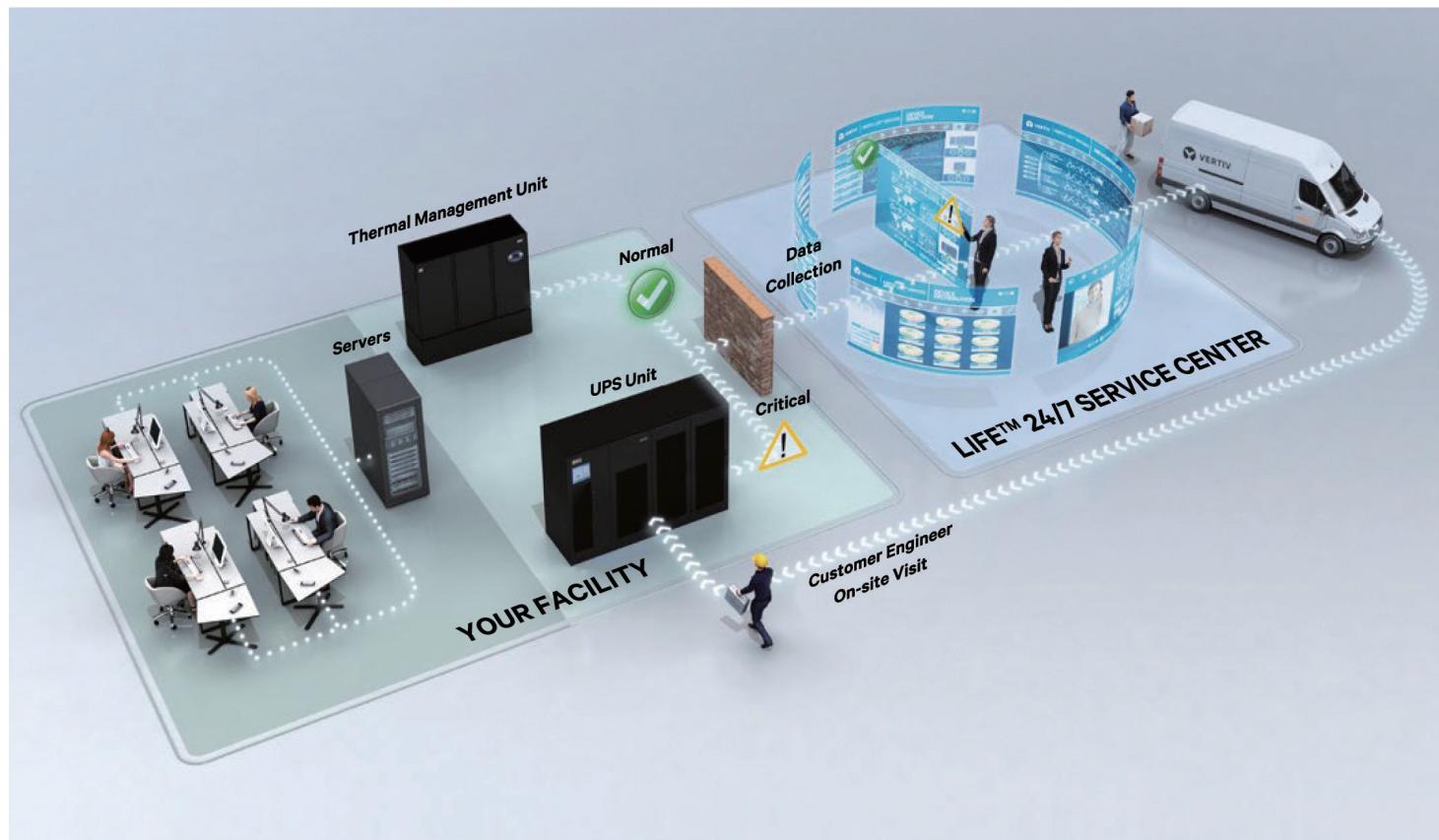
The continuous monitoring of all relevant parameters in turn maximizes unit performance, reduces on-site maintenance and extends the life of your equipment.

Fast Incident Response

Vertiv LIFE Services allow for immediate definition of the best course of action, as a result of the regular communication between your Vertiv™ Liebert® EXM2 system and our Vertiv LIFE Service centers.

Reporting

You will receive a comprehensive report detailing the working order of your equipment and its operational performance.



Technical Specifications

Nominal Power Ratings (kVA/kW)	100 kVA	120 kVA	160 kVA	200 kVA	250 kVA
Input					
Nominal input voltage (V)	380 / 400 / 415 (three-phase and sharing neutral with the bypass input)				
Input voltage range without battery discharge (V)*	228 to 478 V				
Nominal input frequency (Hz)	50 / 60				
Input frequency range (Hz)	40 to 70 Hz				
Bypass voltage tolerance (%)	Upper limit: +10, +15, or +20, default: +15 Lower limit: -10, -20, -30, -40, default: -20				
Bypass frequency tolerance (%)	±10				
Input power factor (kW/kVA)	0.99				
Input THDi (%)*	<3% (full load), 4% (half load)				
Battery					
Battery bus voltage (VDC)	360 to 528, 2 Wire				
Battery charger max. (A)	30	45	45	60	75
Output					
Nominal output voltage (V)	380 / 400 / 415 (three-phase and sharing neutral with the bypass input)				
Nominal output frequency (Hz)	50 / 60				
Nominal active power (kW)	100	120	160	200	250
THDv with 100% linear load (%)	2				
Inverter overload capacity	≤105% Continuous; 105% to 110% for 60 min; 110% to 125% for 10 min; 125% to 150% for 1 min; >150% to 200% for 200 ms				
Efficiency					
Double conversion mode	Up to 97%				
Dynamic online mode	Up to 98.8%				
Eco mode	Up to 99.2%				
Dimensions and weight¹					
Dimensions (W x D x H), mm	600 x 850 x 1600				
Shipping dimensions (W x D x H), mm	800 x 1000 x 1800				
Weight, kg	315	350	350	412	447
Shipping weight, kg	345	380	380	443	478
General					
Noise at 1 m dBA	60				
Altitude	1500 m no derating, 1500 to 3000 m derate power by 1% per 100 m increase				
Protection level	IP20, IP21, IP31 (optional)				
General and safety requirements for UPS	IEC 62040-1				
EMC requirements for UPS	IEC 62040-2				
UPS classification according to IEC EN 62040-3	VFI-SS-111				
Central Power Supply Systems (CPSS) applications*	EN 50171				
Rail applications*	EN 50121-1; EN 50121-5				

* Conditions apply

1. Without side cabinet and top fan subassembly



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