



Vertiv™ Liebert® EXS Three Phase UPS

10, 15 and 20kVA 208/220V Tower

Online Double Conversion UPS
offers the Highest level of
Power Protection



Vertiv™ Liebert® EXS Three Phase UPS

Consider the Liebert® EXS UPS for stand alone 3-phase applications including IT Edge.



10kVA Models

15/20kVA Models



**Flexible And
Optimized Design**



**Highly Efficient and
Lowest TCO UPS**



**Complete and
Integrated Solution**



**Fast, Easy Installation
and Serviceability**



**Flexible Monitoring &
Management Options**

High Availability

Reliable performance and high availability are derived through a proven on-line, double conversion, transformer-free design.

- Integrated Maintenance Bypass ensures critical loads operate even during service
- Short circuit withstand rating up to 30kA
- Temperature compensating battery charger prolongs battery life

What's In The Box?

- UPS
- Quick Installation Guide
- IS-Unity DP Communication Card
- Vertiv™ Power Insight Management Software (free download from Vertiv.com)
- Safety Instructions
- WEE Recycling Sheet (ISO 14001 Compliance)

Overview

The Liebert® EXS is an on-line, three-phase (in/out), 208/220V integrated UPS, optimized with a compact footprint. Standard configurations offer a reliable and economical power solution in 10, 15, and 20kVA capacities.

Key Benefits

- Integrated solution supports faster deployments
- Compact, high power density design offers a small footprint
- Flexible UPS, power distribution and battery arrangements to meet capacity and runtime demands
- Efficient operation saves energy
- High power factor delivers more usable power
- Easy to install
- Integrated maintenance by-pass option ensures greater availability
- Intelligent monitoring and management offers improved visibility and control

Offers reliable, high-quality AC Power to a Variety of IT Systems:

- Small data rooms
- IT closets, servers and storage
- Branch, small-midsize IT systems
- Medical/lab testing equipment
- High Availability
- VoIP
- ISDN & frame relay applications
- Storage systems
- Security systems



FEATURES AND PERFORMANCES

- Flexible integrated runtime solution
- Double-Conversion efficiency up to 96.2%
- Unity output Power Factor
- High energy density - Compact Footprint
- Integrated Maintenance Bypass
- Suitable for multiple kind of applications
- Vertiv™ LIFE™ Services compatible

Key Applications



Transportation



Banking



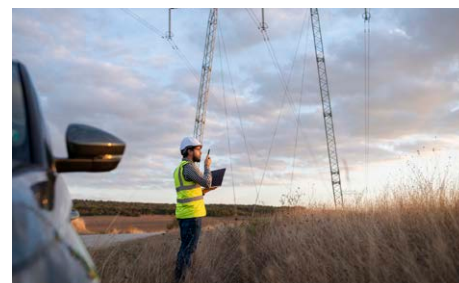
Retail



Healthcare



Manufacturing



Telecom

Vertiv™ Liebert® EXS Three Phase UPS

Vertiv™ Liebert® EXS 10 to 20kVA

Compact Design and Improved Performances

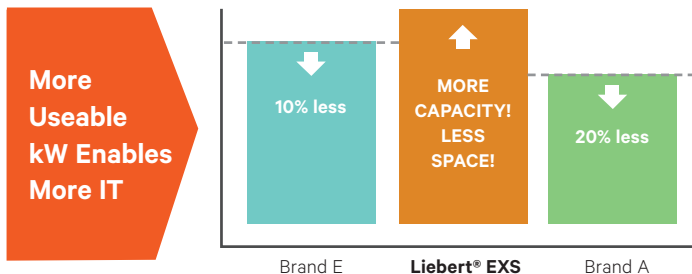
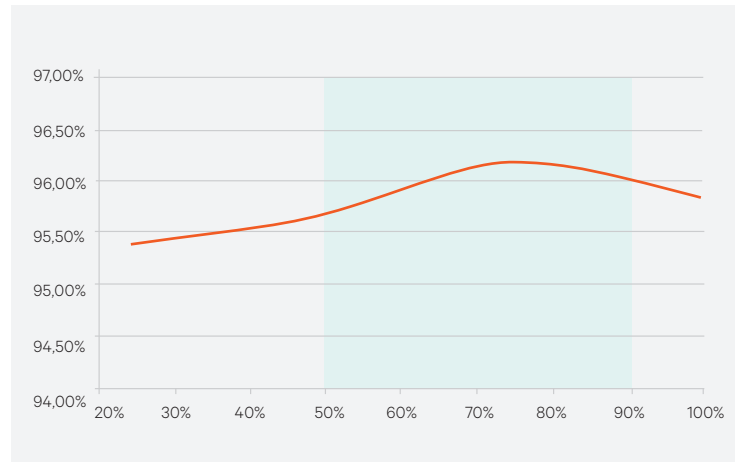
The Liebert® EXS is a transformer-free UPS offering exceptional features for mission-critical applications. With double conversion efficiency of up to 96.2%,

Liebert EXS ensures **remarkable operational cost savings**, reducing both the Total Cost of Ownership (TCO) and environmental impact giving the confidence of getting the most out of the power source, and saving on energy bills.

The Liebert EXS has a unity output power factor and high- power density, which provides the **highest possible active power** in a compact design and standalone unit. This means critical devices have necessary reliable power and protection without sacrificing valuable space, making it perfect for installations where space is limited.

With **optimized internal runtime**, the Liebert EXS delivers continuous power protection, ensuring that critical devices remain powered in the event of an outage, preventing any loss of data or productivity.

These benefits make the Liebert EXS ideal for a wide range of **mission-critical applications**, including IT installations, transportation, emergency lighting, healthcare, retail, and government facilities.



Save Now. Save Later.

Control Costs by Managing Capital and Operating Expenses

Liebert® EXS UPS Performance and Costs Control



Flexible, Efficient Integration

The Liebert EXS utilizes an **optimized tower design** to deliver reliable power in an efficient, flexible and integrated platform. The solution ensures the critical UPS, bypass, batteries and distribution elements operate cohesively to power vital systems simply, efficiently and effectively.

Integrated Autonomy

The Liebert EXS comes equipped with internal battery, maintenance bypass, and optional receptacle distribution in one, simple package. Liebert EXS provides an optimized **integrated autonomy** which results in back up times in a **compact footprint**. Its internal architecture is able to house up to four battery strings, further optimizing integrated autonomy and delivering the added advantage of virtually eliminating the need for an external battery cabinet.

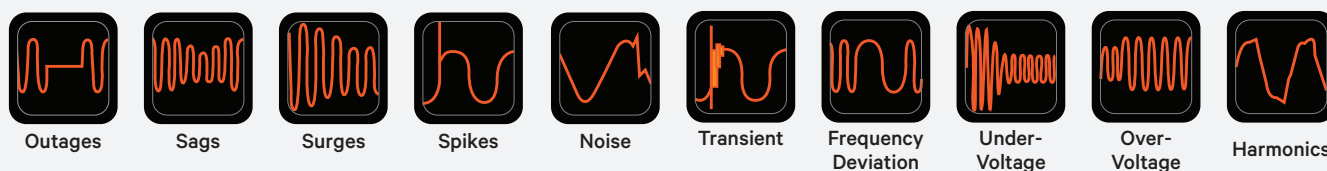
Easy Installation, Serviceability

Pre-assembled, integrated system reduces field work. This furthermore reduces installation costs and minimizes the demand on physical space. A pallet ramp offers easy movement. Cable connections and wiring are easily accessible.

Vertiv™ Liebert® EXS 10 to 20kVA Features

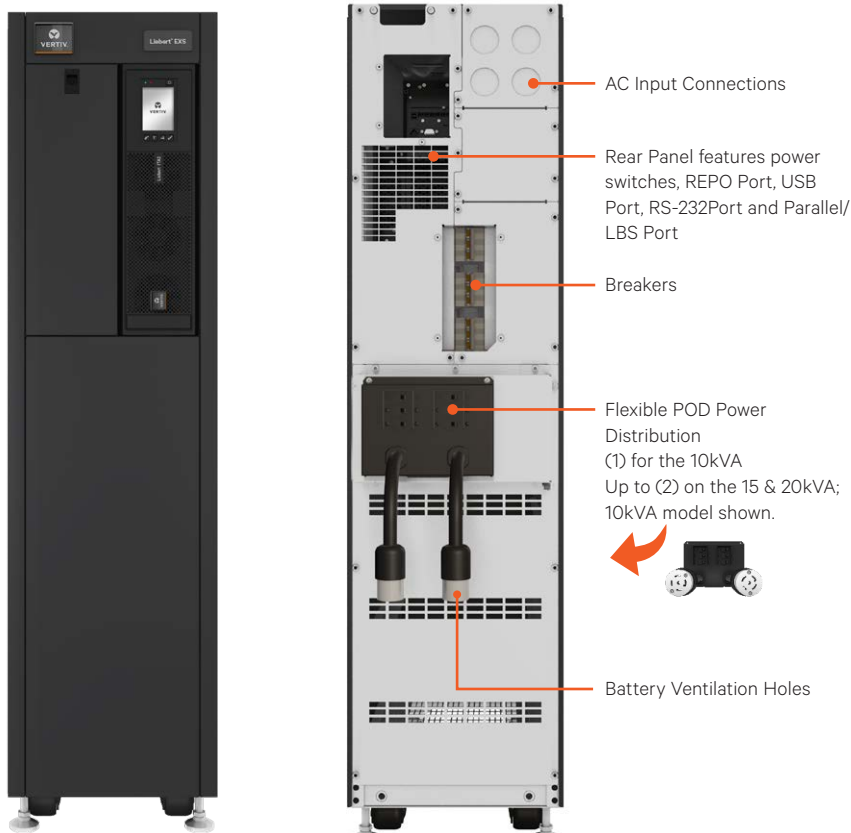


Protect Critical IT Systems From All Key Electrical Threats



Vertiv™ Liebert® EXS Three Phase UPS

Liebert® EXS 10 to 20kVA



Power Distribution

Fast, simple and flexible power distribution is accomplished using either a straight hardwired approach or by applying various distribution PODs (power output distribution) for quick and easy receptacle deployments. In addition, users can mix and match power distribution assemblies.

Distribution Options	Qty of Receptacles	Part Number
Hardwire	-	Does Not Apply
L21-30R	2	PD3-001
L21-20R	2	PD3-009
L6-30R	6	PD3-002
L6-20R	6	PD3-006
L5-30R	6	PD3-003
L5-20R	6	PD3-005
IEC60309 4W+G	1	PD3-011
IEC60309 3W+G	1	PD3-004

Vertiv™ Liebert® EXS Cable Kits

The following cable kits allow converting standard hardwired connections to cord-n-plug connections for ease of installation and servicing. These cable kits can only be used with the 10kVA UPS models.

Cable Kit P/N: ITA2-10KMBCSL1

- (1) Main Input Cord 10 feet in Length with IEC309 connector
- (1) Main Output Cord 1foot in Length with IEC309 connector.
- Can be used with the 10kVA UPS only for a single input system.
- Both cords are 3-phase 4W+G

Cable Kit P/N: ITA2-10KMBCSL2

- (1) Main Input Cord 10 feet in Length with IEC309 connector
- (1) Main Output Cord 1foot in Length with IEC309 connector.
- Can be used with the 10kVA UPS only for a single input system
- The input cord is 3-phase 4W+G and the output is 3-phase 3W+G

Cable Kit P/N: ITA2-10KMBCSL3

- (2) Input Cords 10 feet in Length with IEC309 connector
- (1) Main Output Cord 1foot in Length with IEC309 connector.
- Can be used with the 10kVA UPS only for a dual input system
- All cords are 3-phase 4W+G



10kVA with Integrated Batteries and Bypass



10kVA with Integrated extended runtime battery cabinet and bypass



15, 20kVA with Integrated Batteries and Bypass

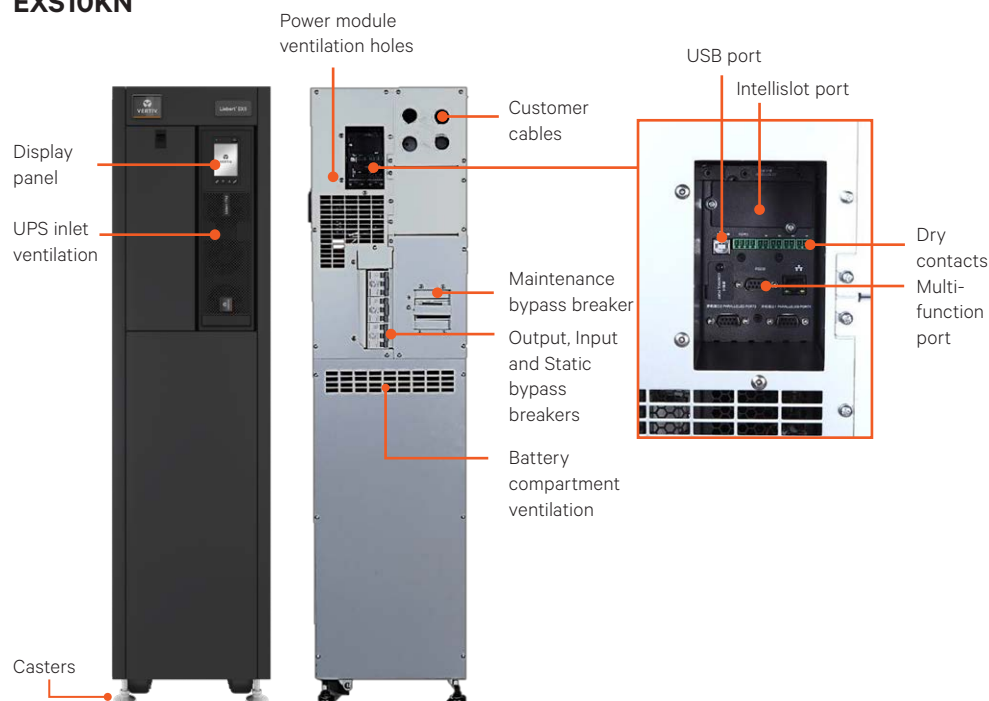
Model Numbers	EXS10KN	EXS10KXRN	EXS15KN EXS15KXRN EXS20KN EXS20KXRN
Ratings	10kVA/10kW	10kVA/10kW	15kVA/15kW; 20kVA/20kW
Dimensions	335x650x1300 (mm) 13.1x25.6x 51.2 (in)	508x650.24x1300.48 22.7 x25.6x51.2 (in)	440x750x1600 (mm) 17.3x29.5x63 (in)

Pre-Configured SKU's	Rating	Input & Output Connections	Description	Runtime (mins.)		Recommended Breaker Size	Recommended Wire Size	Recommended Lugs	Number of Wires
				Full Load	Half Load				
EXS10KN	10kVA/10kW	3PH, 4W+G Hardwired Input/Output	EXS 10kVA UPS with internal VRLA battery and IS-UNITY-DP network Communication Card	6	18	50A	6AWG	McMaster-Carr: 7113K366 Thomas & Betts: RE6-14	5 (L1-L2-L3-N-G)
EXS10KXRN	10kVA/10kW	3PH, 4W+G Hardwired Input/Output	EXS 10kVA UPS with extended runtime internal VRLA battery and IS-UNITY-DP network Communication Card	30	66	50A	6AWG	McMaster-Carr: 7113K366 Thomas & Betts: RE6-14	5 (L1-L2-L3-N-G)
EXS15KN	15kVA/15kW	3PH, 4W+G Hardwired Input/Output	EXS 15kVA UPS with internal VRLA battery and IS-UNITY-DP network Communication Card	8	21	70A	3AWG	McMaster-Carr: 6926K54 Thomas & Betts: 54107NT	5 (L1-L2-L3-N-G)
EXS15KXRN	15kVA/15kW	3PH, 4W+G Hardwired Input/Output	EXS 15kVA UPS with internal VRLA extended runtime battery and IS-UNITY-DP network Communication Card	15	35	70A	3AWG	McMaster-Carr: 6926K54 Thomas & Betts: 54107NT	5 (L1-L2-L3-N-G)
EXS20KN	20kVA/20kW	3PH, 4W+G Hardwired Input/Output	EXS 20kVA UPS with internal VRLA battery and IS-UNITY-DP network Communication Card	5	15	90A	2AWG	McMaster-Carr: 6926K54 Thomas & Betts: 54107NT Tyco Electronics: 132331-1	5 (L1-L2-L3-N-G)
EXS20KXRN	20kVA/20kW	3PH, 4W+G Hardwired Input/Output	EXS 20kVA UPS with internal VRLA extended runtime battery and IS-UNITY-DP network Communication Card	15	35	90A	2AWG	McMaster-Carr: 6926K54 Thomas & Betts: 54107NT Tyco Electronics: 132331-1	5 (L1-L2-L3-N-G)

Vertiv™ Liebert® EXS Three Phase UPS

Vertiv™ Liebert® EXS 10kVA Models Display and Connections

EXS10KN



EXS10KXRN



Benefits

Display Panel:

Full color graphic LCD, status and control. Control UPS operation: Power On, Power off, Bypass Transfers UPS Status:

- Battery capacity
- UPS load
- Input/output Voltages, Current
- Event Logs
- Battery Operation
- UPS Fault Condition

Static Bypass Circuit:

Maintain load during abnormal UPS operations with uninterrupted automatic transfer.

Internal to Maintenance Bypass:

- Electrically isolate UPS power electronics modules from power
- Integrated interlock to ensure proper bypass transfer sequence

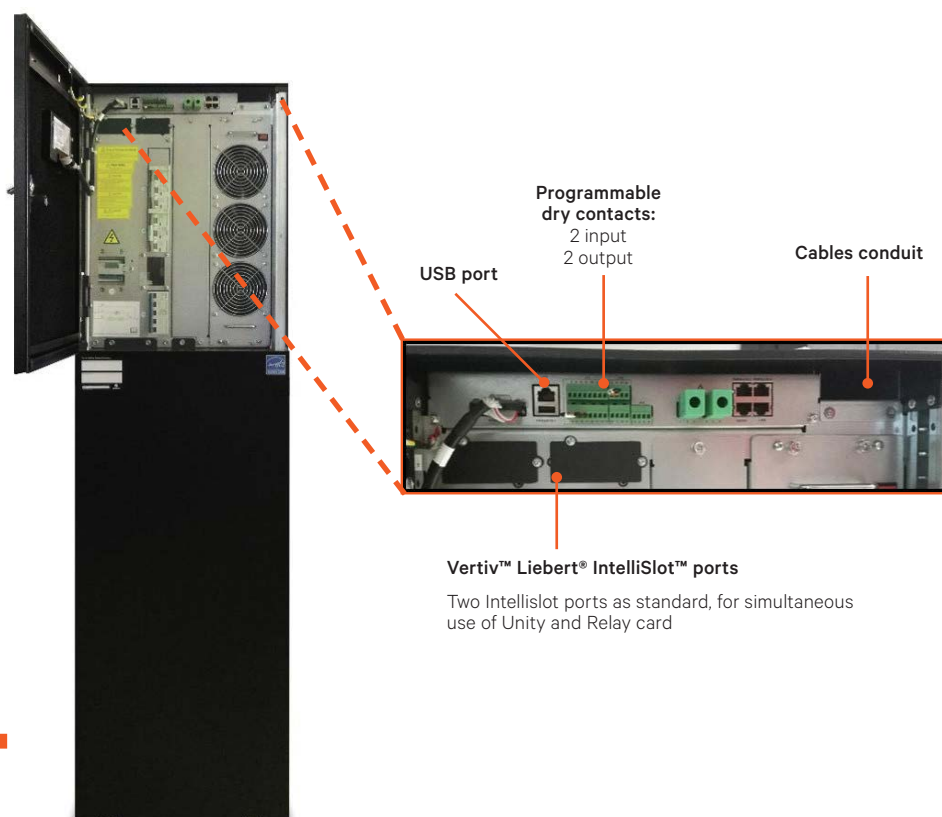
Vertiv™ Liebert® Intellislot™ Port:

Optional cards provide visibility and control via SNMP to network and building management systems.

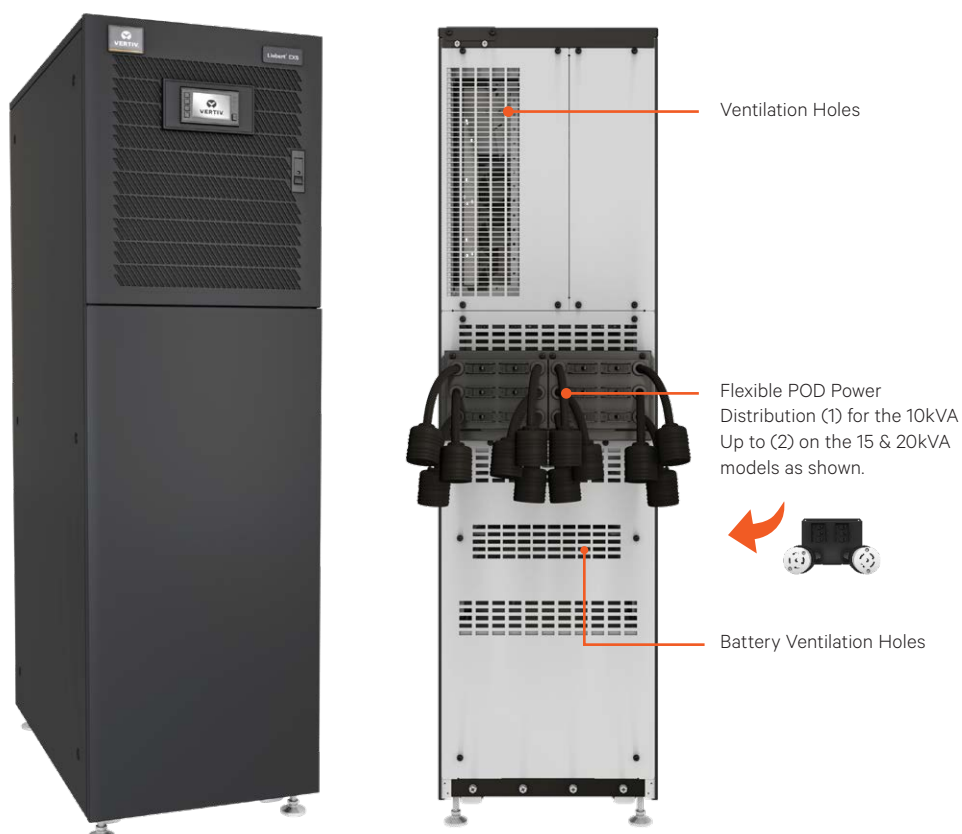
USB Port:

Local USB port allows for direct hardware connection to utilize Vertiv™ Power Insight shutdown management software.

Vertiv™ Liebert® EXS 15/20 kVA Models Display and Connections



- EXS15KN
- EXS15KXRN
- EXS20KN
- EXS20KXRN



Vertiv™ Liebert® EXS Three Phase UPS

Software

Vertiv connects and protects your network with core-to-edge solutions and unmatched expertise. For maximum visibility and effective monitoring in one view, pair your Vertiv™ UPS with a software solution.



Vertiv™ Environet™ Alert

Environet™ Alert provides industry companies with critical facility monitoring software that is affordable and easy to use. This solution delivers superior monitoring, alerting, trending and data organization. Get monitoring, alerting and trending at a price that's right for your business.



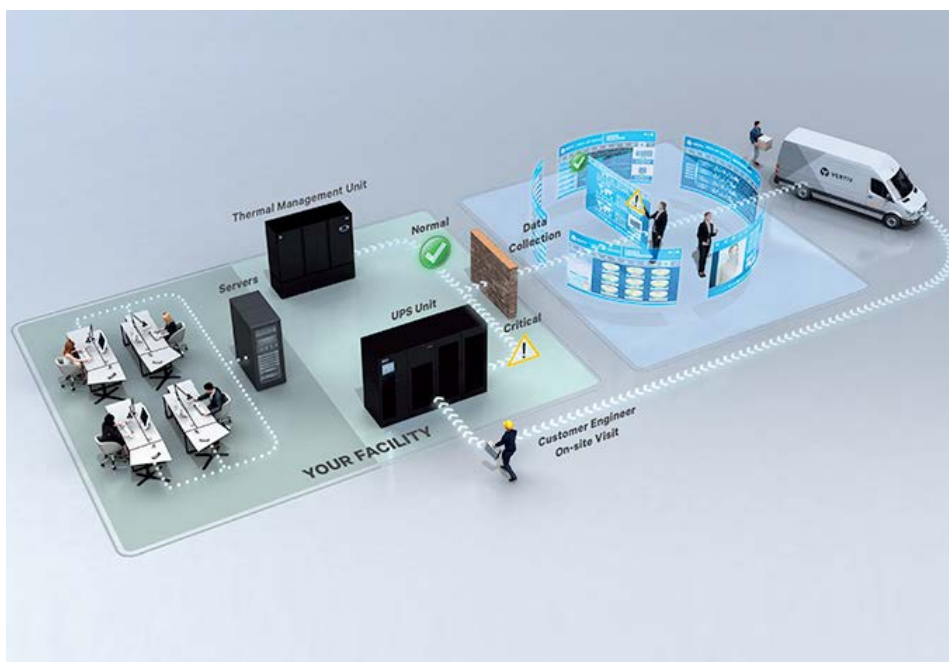
Vertiv™ Power Insight

Power Insight is a complimentary web-based software designed for users with a distributed infrastructure that need a way to manage multiple devices. It is a simple to install, easy to use solution that provides a single interface for up to 100 UPSs or rPDUs. Visit the [product page](#) to download.

Service and Support

We get you started and keep you going. Only Vertiv Services can provide the degree of the support required to ensure the availability needed for critical systems. Several programs are available to meet the needs of your operation.

Vertiv™ LIFE™ Remote Diagnostic Services for Rapid Response



Refer to page for service SKUs

This UPS can monitor:



Capacity



Temperature



Humidity



Access



Leaks

IS-UNITY-DP - Supports remote and local environmental monitoring. Compatible with the Vertiv™ Platform. Connect to IT networks and building management systems (BACNET/MODBUS).

Uptime assurance

- Continuous monitoring for early detection of trends and operating anomalies
- Analysis and interpretation of alarm and status messages

Rapid incident response

- Automatic transmission of data for analysis
- Concurrent diagnosis and dispatch of engineer to site
- Shipment of parts for corrective maintenance

Increased insight and ease of management

- Notification of operating conditions that may impact system health
- Periodic trend and analysis reports
- Integration of remote and on-site services to ensure business continuity

Vertiv™ Liebert® EXS 10-20 kVA Services and Extended Warranties

Power Startup Services - Summary

- Installation includes mounting and start-up of new UPS or EBC (excludes hard-wired applications) .
- Services performed by Vertiv factory trained technician
- Services performed 7 X 24, excluding national holidays within the 48 contiguous states and Hawaii
- Removal and disposal of existing UPS or EBC equipment, if selected

Startups SKUs Required

Equipment Model / Type	Part Number	Description
Liebert EXS 10kVA and 20kVA	SUEXS10-40U7	Startup 7x24 EXS 10-40kVA
	SUEXS10U-40UM	Startup M-F EXS 10-40kVA

Extended Warranties for EXS

Extended Warranties	Parts and Labor Warranty	Warranty Preferred	Warranty Premier
Equipment Model / Type	Part Number	Part Number	
Liebert EXS 10kVA			
12 Months	12MTHWARPARTSLABACPEXS10	12MTHWARPREFACP1PMEXS10	12MTHWARPREMACP1PMEXS10
18 Months	18MTHWARPARTSLABACPEXS10		
24 Months		24MTHWARPREFACP1PMEXS10	24MTHWARPREMACP1PMEXS10
Liebert EXS 15 and 20kVA			
12 Months	12MTHWARPARTSLABACPEXS15	12MTHWARPREFACP1PMEXS15	12MTHWARPREMACP1PMEXS15
18 Months	18MTHWARPARTSLABACPEXS15		
24 Months		24MTHWARPREFACP1PMEXS15	24MTHWARPREMACP1PMEXS15

Extended Warranties



Parts and Labor Warranty



Parts Included

All parts included except EOL components and consumables



Labor Included

The cost of labor is included



Warranty Premier



Parts Included

All parts included except EOL components and consumables



Labor Included

The cost of labor is included



Preventive Maintenance

PM (8x5) Visit(s) within Warranty
Extension to ensure continuous and optimal equipment performance



Warranty Premier+



Parts Included

All parts included except EOL components and consumables



Labor Included

The cost of labor is included



Preventive Maintenance

PM (7x24) Visit(s) within Warranty
Extension to ensure continuous and optimal equipment performance



Response Time

If an anomaly occurs, CE visit is granted within known and established amount of time

Vertiv™ Liebert® EXS Three Phase UPS

Vertiv™ Liebert® EXS 10-20 kVA Service Contracts

Service Contracts	PM Only 8x5	PM Only 24x7	Basic 1PM24X7	Essential 1PM8X5	Preferred 1PM24X7
Equipment Model / Type	Part Number	Part Number	Part Number	Part Number	Part Number
Liebert EXS 10kVA	MUEXS208-10PF1	MUEXS208-10P71	MUEXS208-10BA1	MUEXS208-10ES1	MUEXS208-10PR1
Liebert EXS 15 and 20kVA	MUEXS208-15PF1	MUEXS208-15P71	MUEXS208-15BA1	MUEXS208-15ES1	MUEXS208-15PR1

Labor Warranty Supplement

1WARACPLAB-B

Service Contracts	PM Only 8x5	PM Only 24x7	Basic	Essential	Preferred
On-Site Service:					
• Includes 1 Preventive Maintenance Service, scheduled by the customer between 8am-5pm, Monday-Friday (excluding national holidays)	✓			✓	✓
• Includes 1 Preventive Maintenance Service, scheduled by the customer at the customer's convenience 24x7 (excluding national holidays).		✓			
• Includes a Performance Evaluation inspection performed immediately after the completion of an emergency visit.			✓		
Customer Support:					
• Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv Customer Services Network Online Internet portal.	✓	✓	✓	✓	✓
Service Professional:					
Performed by Vertiv factory-trained and authorized technician equipped with Vertiv Proprietary tools and software. Vertiv CE's and Vertiv Partners are the only approved OEM service providers for Vertiv products.	✓	✓	✓	✓	✓
Response Time:					
Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Vertiv's Service City.			✓	✓	✓
Parts:					
Includes parts coverage.			✓	✓	✓
Labor & Travel:					
Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.			✓	✓	✓
Internal Battery Coverage:					
Includes parts, labor, disposal and battery jars as required - up to 1 string of battery jars per year, not accumulated over contract term				✓	✓
Battery Recycling:					
Includes battery recycling as required, with documentation meeting EPA requirements				✓	✓

UPS Specifications

Power Rating kVA/kW (PF=1)

		10	15, 20
General Specifications	UPS Technology	On-Line Double Conversion	
Input AC Specification	Input Voltage	208/120, 220/127VAC, 60Hz 3-phase, 4-wire plus ground	
	Frequency Range	40-70Hz	
Output AC Specifications	Voltage	208/120, 220/127VAC, 60Hz 3-phase, 3- or 4-wire plus ground	
	Power Output Distribution Ports	1	2
Battery Specifications	Battery Technology	Valve-regulated lead acid battery	
Communications	Options	(2) Intellislot™ Ports	
	Card Compatibility	IS-UNITY-DP, IS-UNITY-SNMP, IS-UNITY-LIFE, IS-485EXI, IS-RELAY	
	Protocols Available	MODBUS-IP, MODBUS-485, BACNET-IP, BACNET-MSTP, SNMP, HTTP, LIFE™ Services, Relay Contacts	
Environmental Sensors Options	Liebert® SN Series	Temperature, Humidity, Temperature/Humidity Combination, Contact Closure	
Physical Data UPS	Dimensions, W x D x H in (mm)*	Standard Run Time: 13x25.6x51.2 (335x650x1300) Extended Run Time: 22.7x25.6x51.2 (576x650x1300)	17.3x29.5x63 (440x750x1600)
	Unit Weight lb (kg)	Standard Runtime: 437-627 (198.2-284.4) Extended Run Time: 893-1,093 (405.1-495.8)	734-1042 (333-477)
Environmental	Operating Temperature	32-122°F (0-50°C), with 2% per 1 degC derating required above 40°C	32-104°F (0-40°C)
	Relative Humidity	0% to 95%	
	Operating Altitude	0-3000m (~10,000 ft), no derating	0-1500m (~4920ft), no derating. 1% per 100m derating up to 3000m
	Acoustical Noise	<55dB	
Agency/Certification/ Conformance		Listed to UL 1778 and CSA certified. Meets current requirements for safe high performance UPS operation. ENERGY STAR qualified.	
Standard Warranty		1 year	

* Note: Power Distribution option adds 6.2 (157mm) to the cabinet depth (D)

