



Product brochure

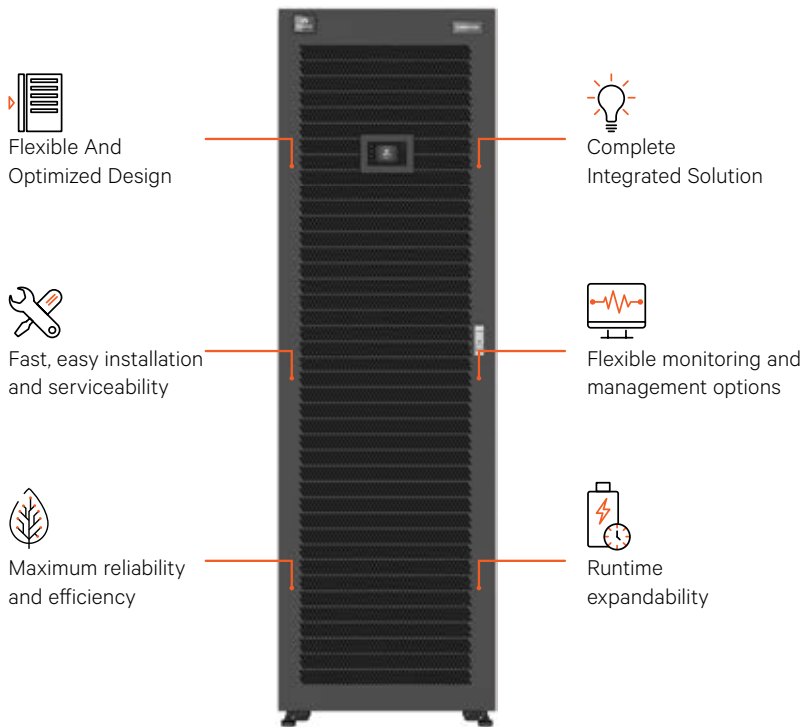
# Vertiv™ Liebert® EXS Three Phase UPS

V-Models 15, 20, 30 and 40kVA 208/220V Tower

Online double conversion UPS offers the  
Highest level of Power Protection



# Consider the Vertiv™ Liebert® EXS UPS V-Model for Room and Row 3-phase applications including IT Edge



## High availability

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

- Integrated Maintenance Bypass is designed to keep critical loads operating even during service.
- Short circuit withstand rating up to 30kA.
- Temperature compensating battery charger prolongs battery life.

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

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

## Highlights

The Vertiv™ Liebert® EXS UPS V-Model is an on-line, three-phase (in/out), 208/220V integrated UPS, optimized with a flexible design.

### Key benefits

- Standard configurations offer a reliable and economical power solution in 15, 20, 30 and 40kVA capacities.
- Integrated solution supports faster deployments.
- Easy to install and maintain owing to front access design.
- Diverse application scenarios: In-Row, Room and against the wall.
- Maximum efficiency and eco mode saves energy.
- Flexible UPS, power distribution and battery arrangements to meet capacity and runtime demands.
- High power factor delivers more usable power.
- Integrated maintenance by-pass option provides greater availability.
- Top and rear entry only cable access; Front and top only service access.
- Intelligent monitoring and management offers improved visibility and control.

### What's in the box?

- UPS
- Quick installation guide
- Vertiv™ Power Insight Management Software (free download from Vertiv.com)
- IS-Unity DP Communication Card
- Safety instructions
- WEEE Recycling sheet (ISO 14001 Compliance)



## Why choose Vertiv™ Liebert® EXS UPS V-Model?



### Key applications and market verticals for Vertiv™ Liebert® EXS UPS V-Model



#### Banking

- Highly reliable back-up for banks, financial services and Insurance companies.
- IT branches- support server room computers, ATMS and other onsite equipment.
- Protect critical processes and customer data in case of an outage.



#### Retail

- Highly reliable back-up for retail stores back offices and ecommerce operations.
- Maintain uptime for critical daily business operations.
- Protect inventory log data in case of an outage.



#### Healthcare

- Provides maximum equipment uptime to non-life critical medical equipment.
- Maintain access to critical electronic health records for continuous patient care.
- Support back up operations and critical data at urgent care facilities, local pharmacies.



#### Manufacturing and light industrial

- Deliver efficient back-up power to small medium manufacturing production lines.
- Reliable back up power for testing environments of manufacturing operations to avoid interruptions and maintain quality.
- Reduce downtime and support monitoring systems to maintain processes.
- Ideal for room-based applications in electrical rooms of industrial facilities.

## Seamlessly integrate aesthetic design into your infrastructure

- Ideal for In-Row server rack applications.
- Suitable to be installed adjacent to the wall.
- Suitable to be installed against the wall using optional top fan kit.
- The top fan option is to allow the UPS to vent out through the top, instead of the rear. This allows the unit to be placed directly against the wall, limiting the amount of required footprint needed for the unit to operate.





## Simplified installation and easy serviceability

- Power modules slide in for simplified installation.
- Clearance at top of the cabinet is 24 in.
- 3 ft. of clearance is needed at the front.
- Front door opening is more than 180°.
- Serviceability is enhanced by the front-access design, which eliminates all side and rear service clearance requirements.
- For maintenance and repair Vertiv world class services team and multiple services options enables hassle free experience.



## Robust and reliable design for optimal performances

The Vertiv™ Liebert® EXS UPS V-Model is a transformer-free UPS offering exceptional features for mission-critical applications. With best-in-class efficiency of up to 93.4%, double conversion mode and up to 97% in ECO mode. Hence, Vertiv™ Liebert® EXS UPS delivers notable 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 Vertiv Liebert EXS UPS V-Model has a unity output power factor and high-power density, which provides the highest possible active power in a room and row-based design unit applicable to any network closet. This means critical devices have necessary reliable power and protection without sacrificing valuable space, making it perfect for installations where space is limited.

### Maximum uptime

Vertiv Liebert EXS UPS comes with internal batteries having a long life span of 8-10 years. With optimized internal runtime and with the capability of additional runtime obtained by optional external battery cabinets, the Vertiv Liebert EXS UPS V-Model offers absolute reliability and 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 Vertiv Liebert EXS UPS V-Model ideal for a wide range of mission-critical applications, including IT installations, transportation, healthcare, retail, and government facilities.

### Tolerates high ambient temperatures

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

### Integrated autonomy

The Vertiv Liebert EXS UPS V-Model comes equipped with internal battery, maintenance bypass, and optional receptacle distribution in one, simple package. Vertiv Liebert EXS provides an optimized integrated autonomy which results in back up times in a compact footprint.



**93.4%  
Efficiency**



**Rising  
temperature**



**97%  
Eco mode**



**Battery  
run time**



**Vertiv™ Liebert®  
EXS UPS V-Model**



**Vertiv™ Liebert® EXS  
V-Model External  
Battery Cabinet**



## Vertiv™ Liebert® EXS UPS V-Model 15 to 40 kVA features

### High power factor (1.0)

More usable power enables more connected loads saving space and costs.

### Factory installed network card

Vertiv™ Liebert® IS-UNITY DP card enables remote management.

### Internal battery cabinets with auto-detection

Be confident the UPS is set up correctly to report available runtime when used with available optional external battery cabinets.

### Product warranty

Standard 1 year warranty along with extended warranty options and service contracts.

### Internal maintenance bypass

Facilitates UPS maintenance if needed, without having to shutdown the connected equipment.

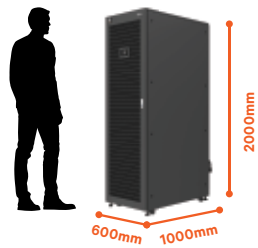
### Efficiency (up to 93.4%) in online mode

Energy Star 2.0 certification. Higher efficiency means an optimized energy management and lower heat dissipation, for energy savings and improved reliability.

### Compact design

Space saving UPS footprint provides space optimization and flexible installation in room/row configuration.





**Vertiv™ Liebert®  
EXS UPS V-Model**



**Vertiv™ Liebert®  
EXS V-Model external  
battery cabinet**

**Vertiv™ Liebert® EXS UPS V-Model Models SKU's**

Model numbers	EXSV-15KN	EXSV-20KN	EXSV-30KN	EXSV-40KN
"With no top fan kit along with corresponding external battery cabinets SKU's" [UPS can take only up to 1 EBC]	<ul style="list-style-type: none"> <li>EXSV-EBC1</li> <li>EXSV-EBC2</li> </ul>	<ul style="list-style-type: none"> <li>EXSV-EBC1</li> <li>EXSV-EBC2</li> </ul>	<ul style="list-style-type: none"> <li>EXSV-EBCXR1</li> <li>EXSV-EBCXR2</li> </ul>	<ul style="list-style-type: none"> <li>EXSV-EBCXR1</li> <li>EXSV-EBCXR2</li> </ul>
	<b>EXSV-15KXRN</b> <ul style="list-style-type: none"> <li>EXSV-EBCXR1</li> <li>EXSV-EBCXR2</li> </ul>	<b>EXSV-20KXRN</b> <ul style="list-style-type: none"> <li>EXSV-EBCXR1</li> <li>EXSV-EBCXR2</li> </ul>		
Model numbers	EXSV-15KTN	EXSV-20KTN	EXSV-30KTN	EXSV-40KTN
"With (Optional) top fan kit along with corresponding external battery cabinets SKU's" [UPS can take only up to 1 EBC]	<ul style="list-style-type: none"> <li>EXSV-EBC1</li> <li>EXSV-EBC2</li> </ul>	<ul style="list-style-type: none"> <li>EXSV-EBC1</li> <li>EXSV-EBC2</li> </ul>	<ul style="list-style-type: none"> <li>EXSV-EBCXR1</li> <li>EXSV-EBCXR2</li> </ul>	<ul style="list-style-type: none"> <li>EXSV-EBCXR1</li> <li>EXSV-EBCXR2</li> </ul>
	<b>EXSV-15KXRN</b> <ul style="list-style-type: none"> <li>EXSV-EBCXR1</li> <li>EXSV-EBCXR2</li> </ul>	<b>EXSV-20KXRN</b> <ul style="list-style-type: none"> <li>EXSV-EBCXR1</li> <li>EXSV-EBCXR2</li> </ul>		
Ratings	15kVA/15kW	20kVA/20kW	30kVA/30kW	40kVA/40kW
UPS dimensions	600x1000x2000 (mm)			

**Vertiv™ Liebert® EXS UPS V-Model pre-configured SKUs - "With no top fan kit"**

Preconfigured SKU	Rating	Description	Runtime (mins)	
			Full load	Half Load
<b>EXSV-15KN</b>	15kVA/15kW	Vertiv™ Liebert® EXS 15kVA UPS (V-Model ) with internal VRLA battery and IS-UNITY-DP network communication card	15	32
EXSV-EBC1		Vertiv™ Liebert® EXS external battery cabinet, 37.5Ah, 1 String VRLA	41	94
EXSV-EBC2		Vertiv™ Liebert® EXS external battery cabinet, 37.5Ah, 2 String VRLA	71	159
<b>EXSV-15KXRN</b>		Vertiv™ Liebert® EXS 15kVA UPS (V-Model ) with internal VRLA extended runtime battery (larger battery) and IS-UNITY-DP network communication card	18	49
EXSV-EBCXR1		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 1 String VRLA	59	133
EXSV-EBCXR2		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 2 String VRLA	100	221
<b>EXSV-20KN</b>	20kVA/20kW	Vertiv™ Liebert® EXS 20kVA UPS (V-Model ) with internal VRLA battery and IS-UNITY-DP network communication card	11	31
EXSV-EBC1		Vertiv™ Liebert® EXS external battery cabinet, 37.5Ah, 1 String VRLA	28	69
EXSV-EBC2		Vertiv™ Liebert® EXS external battery cabinet, 37.5Ah, 2 String VRLA	51	117
<b>EXSV-20KXRN</b>		Vertiv™ Liebert® EXS 20kVA UPS (V-Model ) with internal VRLA extended runtime battery (larger battery) and IS-UNITY-DP network communication card	13	36
EXSV-EBCXR1		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 1 String VRLA	41	96
EXSV-EBCXR2		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 2 String VRLA	71	162
<b>EXSV-30KN</b>	30kVA/30kW	Vertiv™ Liebert® EXS 30kVA UPS (V-Model ) with internal VRLA battery and IS-UNITY-DP network communication card	10	26
EXSV-EBCXR1		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 1 String VRLA	30	69
EXSV-EBCXR2		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 2 String VRLA	51	112
<b>EXSV-40KN</b>	40kVA/40kW	Vertiv™ Liebert® EXS 40kVA UPS (V-Model ) with internal VRLA battery and IS-UNITY-DP network communication card	6	18
EXSV-EBCXR1		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 1 String VRLA	21	49
EXSV-EBCXR2		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 2 String VRLA	36	81



## Vertiv™ Liebert® EXS UPS V-Model pre-configured SKUs - With (Optional) top fan kit

Preconfigured SKU	Rating	Description	Runtime (mins)	
			Full load	Half Load
EXSV-15KTN	15kVA/15kW	Vertiv™ Liebert® EXS 15kVA UPS (V-Model ) with internal VRLA battery, top fan venting, and IS-UNITY-DP network Communication Card	15	32
EXSV-EBC1		Vertiv™ Liebert® EXS external battery cabinet, 37.5Ah, 1 String VRLA	41	94
EXSV-EBC2		Vertiv™ Liebert® EXS external battery cabinet, 37.5Ah, 2 String VRLA	71	159
EXSV-15KXRTN		Vertiv™ Liebert® EXS 15kVA UPS (V-Model ) with internal VRLA extended runtime battery (larger battery), top fan venting, and IS-UNITY-DP network communication card	18	49
EXSV-EBCXR1		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 1 String VRLA	59	133
EXSV-EBCXR2		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 2 String VRLA	100	221
EXSV-20KTN	20kVA/20kW	Vertiv™ Liebert® EXS 20kVA UPS (V-Model ) with internal VRLA battery, top fan venting, and IS-UNITY-DP network communication card	11	31
EXSV-EBC1		Vertiv™ Liebert® EXS external battery cabinet, 37.5Ah, 1 String VRLA	28	69
EXSV-EBC2		Vertiv™ Liebert® EXS external battery cabinet, 37.5Ah, 2 String VRLA	51	117
EXSV-20KXRTN		Vertiv™ Liebert® EXS 20kVA UPS (40kVA Frame) with internal VRLA extended runtime battery (larger battery), top fan venting, and IS-UNITY-DP network communication card	13	36
EXSV-EBCXR1		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 1 String VRLA	41	96
EXSV-EBCXR2		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 2 String VRLA	71	162
EXSV-30KTN	30kVA/30kW	Vertiv™ Liebert® EXS 30kVA UPS (V-Model ) with internal VRLA battery, top fan venting, and IS-UNITY-DP network communication card	10	26
EXSV-EBCXR1		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 1 String VRLA	30	69
EXSV-EBCXR2		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 2 String VRLA	51	112
EXSV-40KTN	40kVA/40kW	Vertiv™ Liebert® EXS 40kVA UPS (40kVA Frame) with internal VRLA battery, top fan venting, and IS-UNITY-DP network communication card	6	18
EXSV-EBCXR1		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 1 String VRLA	21	49
EXSV-EBCXR2		Vertiv™ Liebert® EXS external battery cabinet, 50Ah, 2 String VRLA	36	81

## Vertiv™ Liebert® EXS UPS V-Model Series pre-configured SKUs-Wire sizing guide

EXSV-Model UPS ratings	Corresponding SKU's	Recommended wire size	Recommended breaker size	Recommended lugs	Number of wires
15	EXSV-15KN	3 AWG	70A	Thomas and Betts: 256-30695-257	5 (L-L-L-N-G)
	EXSV-15KXRN				
	EXSV-15KTN				
	EXSV-15KXRTN				
20	EXSV-20KN	2 AWG	90A	Thomas and Betts: 256-30695-257	5 (L-L-L-N-G)
	EXSV-20KXRN				
	EXSV-20KTN				
30	EXSV-30KN	3/0 AWG	150A	Thomas and Betts: 54211	5 (L-L-L-N-G)
	EXSV-30KTN				
40	EXSV-40KN	4/0 AWG	175A	Thomas and Betts: 54212	5 (L-L-L-N-G)
	EXSV-40KTN				
EXSV-Model external battery cabinets	EXSV-EBC1 EXSV-EBC2 EXSV-EBCXR1 EXSV-EBCXR2	4/0 AWG		Thomas and Betts: 54212	3 (L-L-G)



## Power distribution

Fast, simple and flexible power distribution is accomplished using either a straight hardwired approach or by applying various optional 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

## Network communications and environmental sensors (Standard on all models of Vertiv™ Liebert® EXS UPS)

Network communications	IS-Unity DP	Vertiv™ Intellislot™ web card for SNMP and web management. Supports environmental sensors.
	IS-RELAY	Vertiv™ Intellislot™ Interface Kit for Relay Contacts
Environmental sensors (Compatible with optional Vertiv™ Liebert® network card IS-UNITY DP)	SN-Z01	Integrated cable with single temperature sensor
	SN-Z02	Integrated cable with three temperature sensors
	SN-Z03	Integrated cable with three temperature and one humidity sensors
	SN-T	Modular with single temperature sensor
	SN-2D	Modular with two door contact inputs
	SN-3C	Modular with three dry contact inputs
	SN-L20	Modular leak zone sensor with 20 -foot cable
UPS manageability options	Vertiv™ Power Insight software management	Vertiv™ Power Insight is a complimentary web-based software designed to monitor up to 100 Vertiv™ UPSs and Vertiv™ rPDUs



## Intelligent communications

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

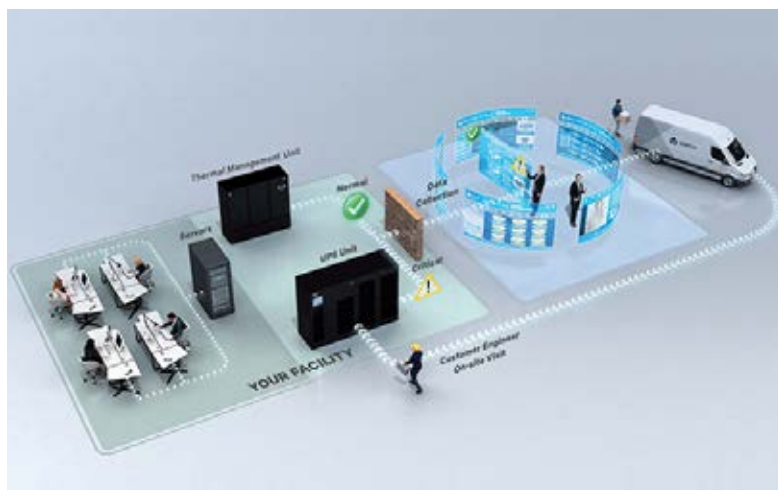


Power Insight is a complimentary web-based software designed for users with a distributed infrastructure that need a way to manage multiple devices. It is a simple to install, easy to use solution that provides a single interface for up to 100 UPSs or rPDUs. Visit the [product page](#)  to download.

## Service and support

We get you started and keep you going. Only Vertiv™ Services can provide the degree of the support required to help maintain 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



## This UPS can monitor:



**Capacity**



**Temperature**



**Humidity**



**Access**



**Leaks**

*IS-Unity card - Supports remote and local environmental monitoring. Compatible with Vertiv™ Environet™ Alert and Vertiv™ Power Insight. 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 support 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
Vertiv™ Liebert® EXS UPS V-Model 15kVA 20kVA, 30kVA and 40kVA	SUEXSVC-U7	Startup 7x24 EXS 10-40kVA
	SUEXSVC-UF	Startup M-F EXS V-Model 15-40kVA

## Extended warranties

Parts and labor warranty	Warranty premier	Warranty premier+
 <p><b>Parts included</b> All parts included except EOL components and consumables</p>  <p><b>Labor included</b> The cost of labor is included</p>	 <p><b>Parts included</b> All parts included except EOL components and consumables</p>  <p><b>Labor included</b> The cost of labor is included</p>  <p><b>Preventive maintenance</b> PM (8x5) Visit(s) within Warranty Extension to help maintain continuous and optimal equipment performance</p>	 <p><b>Parts included</b> All parts included except EOL components and consumables</p>  <p><b>Labor included</b> The cost of labor is included</p>  <p><b>Preventive maintenance</b> PM (7x24) Visit(s) within Warranty Extension to help maintain continuous and optimal equipment performance</p>  <p><b>Response time</b> If an anomaly occurs, CE visit is granted within known and established amount of time</p>

### Extended warranties for Vertiv™ Liebert® EXS UPS Model

Extended warranties	Parts and labor warranty	Warranty premier	Warranty premier+
Equipment model / type	Part number	Part number	Part number
Vertiv™ Liebert® EXS 10kVA			
12 Months	12MWPLEXSC10	1YWP1PMEXSC10	1YWPP1PMEXSC10
18 Months	18MWPLEXSC10		
24 Months		2YWP1PMEXSC10	2YWPP1PMEXSC10
Vertiv™ Liebert® EXS 15 and 20kVA			
12 Months	12MWPLEXSC20	1YWP1PMEXSC20	1YWPP1PMEXSC20
18 Months	18MWPLEXSC20		
24 Months		2YWP1PMEXSC20	2YWPP1PMEXSC20



## Extended warranties for Vertiv™ Liebert® EXS UPS V-Model

Extended warranties	Parts and labor warranty	Warranty premier	Warranty premier+
Equipment model / type	Part number	Part number	Part number
Vertiv™ Liebert® EXS V 15 and 20kVA			
12 Months	12MWPLEXSVC20	1YWP1PMEXSVC20	1YWPP1PMEXSVC20
18 Months	18MWPLEXSVC20		
24 Months		2YWP1PMEXSVC20	2YWPP1PMEXSVC20
Vertiv™ Liebert® EXS V 30 and 40kVA			
12 Months	12MWPLEXSVC40	1YWP1PMEXSVC40	1YWPP1PMEXSVC40
18 Months	18MWPLEXSVC40		
24 Months		2YWP1PMEXSVC40	2YWPP1PMEXSVC40

## 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
Vertiv™ Liebert® EXS 10kVA	MU53C-10PF1	MU53C-10P71	MU53C-10BA0	MU53C-10ES1	MU53C-10PR1
Vertiv™ Liebert® EXS 15 and 20kVA	MU53C-20PF1	MU53C-20P71	MU53C-20BA0	MU53C-20ES1	MU53C-20PR1
Vertiv™ Liebert® EXS V 15 and 20kVA	MU53C-15PF1	MU53C-15P71	MU53C-15BA0	MU53C-15ES1	MU53C-15PR1
Vertiv™ Liebert® EXS V 30 and 40kVA	MU53C-40PF1	MU53C-40P71	MU53C-40BA0	MU53C-40ES1	MU53C-40PR1

## Labor warranty supplement (AC Power Equipment Labor Warranty)

### 1WARACPLAB-B

Service contracts	PM Only 8x5	PM Only 24x7	Basic	Essential	Preferred
<b>On-site service:</b>					
<ul style="list-style-type: none"> <li>Includes 1 Preventive Maintenance Service, scheduled by the customer between 8am-5pm, Monday-Friday (excluding national holidays).</li> </ul>	✓			✓	✓
<ul style="list-style-type: none"> <li>Includes 1 Preventive Maintenance Service, scheduled by the customer at the customer's convenience 24x7 (excluding national holidays).</li> </ul>		✓			
<ul style="list-style-type: none"> <li>Includes a Performance Evaluation inspection performed immediately after the completion of an emergency visit.</li> </ul>			✓		
<b>Customer support:</b>					
Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv™ Customer Services Network Online Internet portal.	✓	✓	✓	✓	✓
<b>Service professional:</b>					
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.	✓	✓	✓	✓	✓
<b>Response time:</b>					
Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Vertiv's Service City.			✓	✓	✓
<b>Parts:</b>					
Includes parts coverage.			✓	✓	✓
<b>Labor &amp; travel:</b>					
Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.			✓	✓	✓
<b>Internal battery coverage:</b>					
Includes parts, labor, disposal and battery jars as required - up to 1 string of battery jars per year, not accumulated over contract term.				✓	✓
<b>Battery recycling:</b>					
Includes battery recycling as required, with documentation meeting EPA requirements.				✓	✓



## Battery runtimes in minutes- (37.5 Ah)

Applicable model numbers: EXSV-EBC1; EXSV-EBC2

UPS model	Battery string qty.	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
		<b>15 kW</b>	<b>13.5 kW</b>	<b>12 kW</b>	<b>11.25kW</b>	<b>9 kW</b>	<b>7.5 kW</b>	<b>6 kW</b>	<b>4.5 kW</b>	<b>3.75 kW</b>	<b>1.5 kW</b>
15kVA	1	12	14	17.5	20.5	25	32	44	65	108	244.5
	2	41.5	47.5	58	66	77	94.5	122	170	267	577
		<b>100%</b>	<b>90%</b>	<b>80%</b>	<b>70%</b>	<b>60%</b>	<b>50%</b>	<b>40%</b>	<b>30%</b>	<b>20%</b>	<b>10%</b>
		<b>20 kW</b>	<b>18 kW</b>	<b>16 kW</b>	<b>15 kW</b>	<b>12 kW</b>	<b>10 kW</b>	<b>8 kW</b>	<b>6 kW</b>	<b>5 kW</b>	<b>2 kW</b>
20kVA	1	11.5	13.5	16	19.5	25.5	31.5	41	57	90.5	204.5
	2	28	32.5	38	45.5	58	69.5	88	122	193.5	428.5

## Battery runtimes in minutes- (50 Ah)

Applicable model numbers: EXSV-EBCXR1; EXSV-EBCXR2

UPS model	Battery string qty.	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
		<b>15 kW</b>	<b>13.5 kW</b>	<b>12 kW</b>	<b>11.25kW</b>	<b>9 kW</b>	<b>7.5 kW</b>	<b>6 kW</b>	<b>4.5 kW</b>	<b>3.75 kW</b>	<b>1.5 kW</b>
15kVA	1	18	21	26.5	31	37.5	48.5	65.5	94.5	151	342
	2	59.5	67.5	81	92	107.5	133	171.5	235.5	369	782.5
		<b>100%</b>	<b>90%</b>	<b>80%</b>	<b>70%</b>	<b>60%</b>	<b>50%</b>	<b>40%</b>	<b>30%</b>	<b>20%</b>	<b>10%</b>
		<b>20 kW</b>	<b>18 kW</b>	<b>16 kW</b>	<b>15 kW</b>	<b>12 kW</b>	<b>10 kW</b>	<b>8 kW</b>	<b>6 kW</b>	<b>5 kW</b>	<b>2 kW</b>
20kVA	1	13	15.5	18.5	22	29	36.5	48.5	70.5	113	257.5
	2	41.5	47.5	55	64.5	81	96.5	123.5	171.5	269	594.5
		<b>100%</b>	<b>90%</b>	<b>80%</b>	<b>70%</b>	<b>60%</b>	<b>50%</b>	<b>40%</b>	<b>30%</b>	<b>20%</b>	<b>10%</b>
		<b>30 kW</b>	<b>27kW</b>	<b>24 kW</b>	<b>22.5 kW</b>	<b>18 kW</b>	<b>15 kW</b>	<b>12 kW</b>	<b>9 kW</b>	<b>7.5 kW</b>	<b>3 kW</b>
30kVA	1	11.5	13.5	16	19.5	25.5	31.5	41	57	90.5	204.5
	2	28	32.5	38	45.5	58	69.5	88	122	193.5	428.5
		<b>100%</b>	<b>90%</b>	<b>80%</b>	<b>70%</b>	<b>60%</b>	<b>50%</b>	<b>40%</b>	<b>30%</b>	<b>20%</b>	<b>10%</b>
		<b>40 kW</b>	<b>38 kW</b>	<b>32 kW</b>	<b>30 kW</b>	<b>24 kW</b>	<b>20 kW</b>	<b>16 kW</b>	<b>12 kW</b>	<b>10 kW</b>	<b>4 kW</b>
40kVA	1	6.5	8	9.5	11.5	14	18.5	25	38	58	128.5
	2	21.5	24.5	28.5	33	39.5	49	64	93	140	291.5

## UPS specifications

### Power rating kVA/kW (PF=1)

		15	20	30	40
<b>General specifications</b>	UPS technology	On-line double conversion			
<b>Input AC specification</b>	Input voltage	208/120, 220/127VAC, 60Hz 3-phase, 4-wire plus ground			
	Frequency range	40-70Hz			
	Voltage	208/120, 220/127VAC, 60Hz 3-phase, 3- or 4-wire plus ground			
<b>Output AC specifications</b>	Power factor	1.0 (Unity)			
	Power output distribution ports	2	2	2	2
<b>Battery specifications</b>	Battery technology	Valve-regulated lead acid battery			
	Options	(2) Intellislot™ Ports			
<b>Communications</b>	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			
<b>Environmental sensors options</b>	Vertiv™ Liebert® SN series	Temperature, Humidity, Temperature/Humidity combination, Contact closure			
	Dimensions, W x D x H in (mm)*	23.6 x 39.3 x 78.7 in. (600 x 1000 x 2000 mm)			
<b>Physical data UPS</b>	Total unit weight lb (kg)	Standard runtime:	Standard runtime:		
		1212 (550)	1212 (550)	1521 (690)	1543 (700)
	Battery weight lb (kg)	Extended run time:	Extended run time:		
		1455 (660)	1455 (660)		
		Standard: 527 (239)	Standard: 527 (239)	762.6 (346)	762.6 (346)
		Extended: 762.6 (346)	Extended: 762.6 (346)		
	Operating temperature	32-104°F (0-40°C), 68°F to 77°F (20°C to 25°C) for optimum battery life			
	Relative humidity	5% to 95% non-condensing			
<b>Environmental</b>	Operating altitude	Sea level to 4,921 ft (1,500 m) without derating Derate output power by 1% per 328 ft (100 m) above 4,921 ft, up to 10,000 ft (3,000 m)			
	Acoustical noise	<55dB			
<b>Agency/Certification/Conformance</b>		cULus (UL 1778 5th Edition, CSA No.22.2 107.3. Meets current requirements for safe high performance UPS operation. ENERGY STAR qualified.			
<b>Standard warranty</b>		1 year			

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





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