

Vertiv[™] Liebert[®] ITA2 Three Phase UPS with Battery Flexibility (VRLA/Li-ion)

15,20kVA 208V/220V 30,40kVA 400V Rack/Tower

Online Double-Conversion UPS offers the highest level of protection at the IT Edge

















Explore this compact, modular three-phase UPS solution designed for high density computing environments and IT Edge applications

Highly reliable, fast, and robust UPS system that provides constant, 24/7 protection for diverse applications. For three-phase critical systems 40kVA and under consider the next generation Vertiv™ Liebert® ITA2 UPS.





Best-in-class functional solution

Reliable performance and high availability are derived through a proven on-line, double conversion UPS technology.

- Cutting-edge design enables seamless integration into various ecosystems
- Compact UPS system with an intuitive control panel can be used in rack/tower form factor. Support base provides convenient and stable placement on the floor.
- Optimized modules minimize space used in the rack.
- Configuration easily extends to external batteries and the maintenance bypass cabinet
- Parallelability, redundancy and maintenance are facilitated through the use of dedicated maintenance bypass options

What's In The Box?

- UPS
- Tower Stand
- USB Cable
- Quick Installation Guide
- Safety Instructions
- Adjustable 4-Post Rack Mounting Kit
- Copper Jumpers for Single Input Configuration
- Shared Battery Connector Cable (for redundancy/paralleling UPS with VRLA Batteries
- Vertiv[™] Power Insight
 Management Software (free download from Vertiv.com)
- IS-Unity DP Communication Card



Dust Resistent



Shipment Certified



High Altitude Certified



High Temp

Proof

Hiah

Durability

Certified

Overview

- The Liebert ITA2 is an online UPS designed to power threephase (in/out), 208/220V and 400V IT systems simply, reliably, and economically.
- Key Benefits
- Delivers 20kVA, 208V and 40kVA in 400V capacity.
- Capability of pairing either with Lithium Ion or VRLA external batteries.
- Scalable battery runtimes available
- Flexible placement. Use inside a rack or in a tower configuration
- Compact, high-power density solution
- Parallelable for maximum flexibility. Expand capacity up to 40kVA in 208V and up to 80kVA load capacity in 400V.
- Built-in redundancy capability
- Easy to install and manage
- High power factor maximizes the usable power
- Optimized maintenance bypass maintains power, even during servicing (optional)
- Ideally Suited For Powering Many IT Systems
- IT closets, servers and more
- Branch, small-midsize IT systems
- Medical/lab testing equipment
- VoIP
- ISDN & frame relay applications
- Storage systems
- Security systems
- Light industrial
- Replacement for aging UPS



Certified



Vertiv[™] Liebert[®] ITA2 20kVA 208V and 40kVA 400V

Vertiv™Liebert® ITA2 provides exceptional performance for edge, small, and medium data centers, along with critical infrastructure in commercial and industrial settings.



Vertiv™ Liebert® ITA2-UPS-Versatile and Supports Multiple Critical Applications

Key Applications



IT

- Servers
- Networking equipment
- Data storage



Finance

- Branch offices
- Closed-circuit televisions and data protection
- ATMs



Telecom

- 5G mobile stations
- · Access and "last mile"
- Small control rooms



Industrial

- Manufacturing sites
- Control equipment and programmable logic controllers (PLCs)
- Data and networking equipment



Education

- Networking closets
- Networking equipment
- Office protection



Government

- Distributed offices
- Closed-circuit television (CCTV) and data protection
- Small server and storage rooms



Retail

- Point of sale systems
- Networking and wiring closets
- Security and voice over internet protocol (VoIP) telephony



Edge

- Distributed cloud services
- Content providers
- Sensors and data stations

High Performance and High Availability



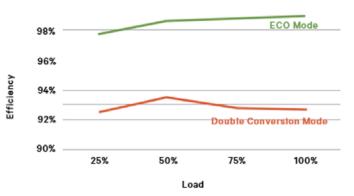
- **High Efficiency:** Liebert® ITA2™ offers best-in-class efficiency of up to 93.4% in double conversion mode and up to 99% in ECO mode over a wide range of load conditions, resulting in significant cost savings.
- 1.0 Output Power Factor (PF): Ensures maximum usable power enabling you to connect more equipment saving you money and space.
- **Power Factor Correction:** prevents noise, harmonics, and distortion from being transferred to connected loads or fed back to the utility.



- Extended Runtime: VRLA- Up to 5 strings (10 external battery cabinets) and Li-Ion up to 8 strings (16 external battery cabinets) can be connected to Liebert® ITA2 UPS for scalable runtimes
- **Advanced Warning Status:** Receive early audible and visual alarms warning you of system status to alert you to an input voltage, output overload, low battery, or battery replacement condition.



- Wide Input Voltage Range: Its cutting-edge, robust component design helps it tolerate the wide input
 voltage and frequency fluctuations easily. Prolongs battery life by allowing the UPS to maximize the use of
 the utility power before transferring to battery.
- **Lightening and Surge Protection:** The transient voltage surge suppression circuitry inside the Liebert®ITA2 provides additional protection for the connected equipment.



High Reliability and Flexibility



- Topology: True online double conversion UPS ensures clean and consistent power.
- **Installation Flexibility**: Rack-tower design offers enhanced flexibility with a wide range of accessories for both stand-alone and rack-mount installations.
- **Compact Footprint:** High power density allows the rack to have a smaller footprint. When rack-mounted, it enables the installation up to 40kVA in just 3U of rack space, resulting in remarkable space savings.



- Redundancy: Supports 1+1 redundant mode up to 2 units for increased system reliability
- Paralleling Capability: Supports up to 2 units in parallel (2+0) for maximum load capacity and flexibility
 facilitated through the dedicated use of a maintenance bypass cabinet 15/20kVA 208V power modules
 can be paralleled up to 30kVA/40kVA capacity respectively. Likewise, 30kVA/40kVA 400V power modules
 can be paralleled up to 60kVA/80kVA capacity respectively.



- Extended Runtimes: Available in standard and long backup for 4 to 8 hours of runtime.
- Hot swappable:
 - If a battery failure occurs, it can be hot-swapped without impacting the entire battery string, allowing for flexible battery configuration, continuous operation and maximizing battery investment.
 - It is possible to replace/configure the UNITY-DP card online, supports plug and play without requiring the UPS to shutdown



- It is possible to replace the LCD display online provided there are no dry contacts that are being connected to it
- **Air-Channel Design:** Robust innovative air channel design protects all of the sensitive PCB components from the heat, resulting in enhanced reliability of the overall system.



Superior Battery Technology and Flexibility



- Hot-Swappable, User-Replaceable Batteries: Increase product life and reliability with both VRLA and Li-ion batteries that can be easily replaced without disrupting power to connected equipment and minimize downtime.
- **Safe and Reliable:** Both VRLA and Li-ion ensure safety and reliability. Lithium-Ion (LiFePO4) battery chemistry is safest and integrated battery management system (BMS) also ensures safe and reliable operation.
- **Environmentally Friendly:** significantly reduce battery disposal and recycling with lower replacement rates. [Refer to Vertiv™ Battery Recycling Program]



Lithium-Ion Batteries:

- Fewer Battery Replacements: Lithium-Ion batteries require fewer battery replacements and last on average up to 3 times as long as traditional VRLA batteries reducing maintenance, labor, and replacement costs (lower TCO).
- More Discharge Cycles: Lithium-Ion batteries deliver up to 10 times more charge / discharge cycles than VRLA batteries.
- Fast Recharge: Lithium-Ion batteries recharge twice as fast as traditional VRLA batteries getting you back to 90% in as little as 2 hours.
- **Lighter Weight:** Lithium-Ion batteries are 45% lighter making it ideal for smaller spaces and wall-mount racks.

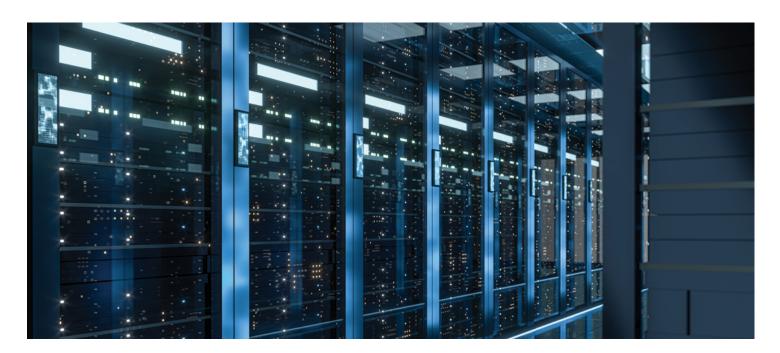
Enhanced Manageability



- **LCD Display:** User-friendly full-color LCD interface with gravity sensing orientation simplified installation and configuration while also providing instant at-a-glance status and insights.
- Remote Management:
 - Vertiv™ Power Insight Liebert® RDU101 card included for web/SNMP manageability.



- Vertiv[™] Environet[™] Alert Monitors and analyzes thousands to millions of points of data of all Vertiv and 3rd party devices.
- Remote Emergency Power Off: Remotely shutdown the UPS during an emergency.



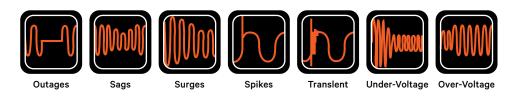
Vertiv[™] Liebert[®] ITA2 MPL UPS with Lithium-Ion provides the highest level of power protection for your business-critical IT applications.

Small Three Phase UPS with High Performance Online Power Protection

The Liebert® ITA2 MPL double conversion online UPS with Lithium-Ion batteries provides both the highest level of power conditioning and battery backup for business- critical IT equipment such as business network gear and servers ensuring your mission-critical applications are protected in the event of an unanticipated loss of power or an unprecedented power surge.

The Liebert® ITA2 MPL UPS with Lithium-Ion protects against the widest range of power fluctuations and automatically switches to battery backup when power loss is detected. With a 1.0 power factor (PF) and no transfer time to operation on battery, you can ensure your most critical assets are protected.

Protects Against



The rack/tower convertible design of the Liebert ITA2 UPS with lithium batteries makes it ideal for edge or distributed IT applications where floor space is at a premium. It is a true low-maintenance, set-it and forget-it solution ideal for remote locations with limited onsite technical resources.

Vertiv Liebert ITA2-MPL UPS with Lithium-Ion Overview

- Lithium batteries are compatible only with 15/20 kVA 208V in a rack/tower convertible form factor.
- Lithium options are not available for 30kVA/40kVA 400V units.
- ITA2-MPL offers 1U & 2U lithium-lon battery cabinets
- Standard 5-year warranty on lithium batteries provides peace of mind that your investment is protected against potentially costly equipment failures
- Achieve the lowest total cost of ownership over the lifetime of the UPS with fewer battery replacements and up to 10 years of useable life
- Hot-swappable, user-replaceable batteries increase the useable life of the UPS by allowing you to easily replace the batteries without disrupting power to connected equipment
- 2 Battery cabinets are required to establish the battery string (DC bus). 1 string of 2U lithium-ion batteries can give up to 7 mins of runtime for a 15kVA UPS and up to 1.5 mins of runtime for a 20kVA UPS at full load.
- Lithium-lon battery technology offers better performance in high temperature environments (50°C) supports up to 10 times more discharge cycles, and delivers faster recharge times compared to VRLA batteries

Why should you choose Lithium-Ion Technology?

Longer Life



Lowest TCO



Small and Lighter



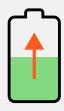
Longer Runtime



Environmentally Friendly



Fast Battery Recharge







Vertiv[™] Liebert[®] ITA2 Power Module, External Batteries and External Maintenance Bypass Features

Each Liebert® ITA2 UPS (8&10kVA) can be used with an external maintenance bypass with power distribution options. This enables UPS service or removal without disrupting power to the connected equipment.



High power factor (1.0)

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

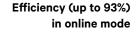




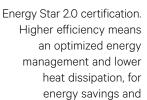
ECO

Factory Installed Network Card

Liebert® IS-UNITY DP card enables remote management



External Maintenance



improved reliability.



External Battery Cabinets with auto-detection

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



Space-saving UPS and optional 1U external battery packs let you optimize rack space and battery runtime.





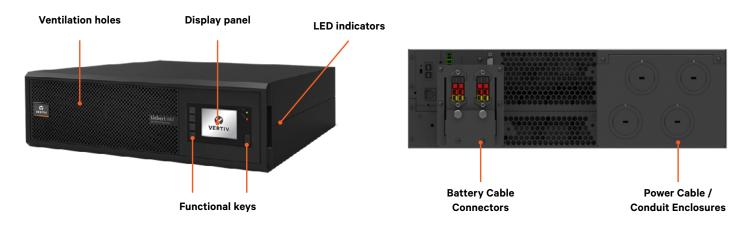
MBC

EBC

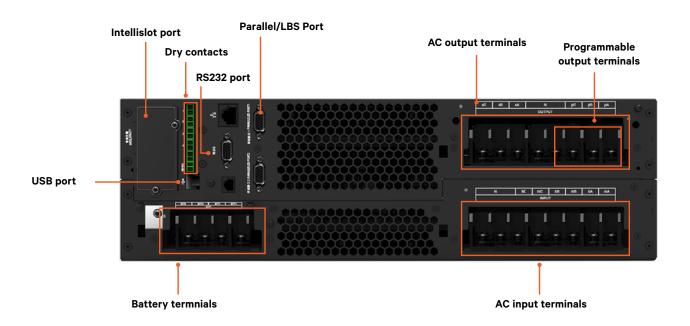
Product warranty

Comprehensive coverage through a standard five-year advanced exchange warranty.

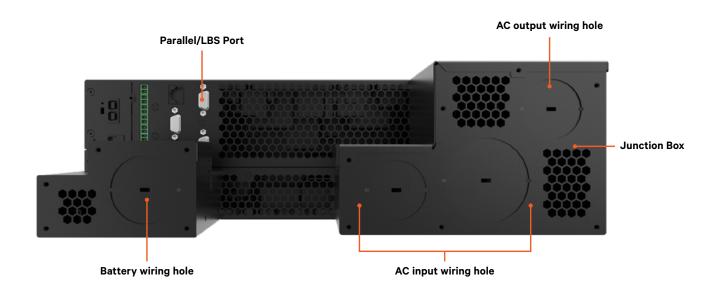
Vertiv™ Liebert® ITA2 Display and Connections



Rear View of the ITA2 UPS 15 and 20kVA 208V



Rear View of the ITA2 UPS 30 and 40kVA 400V

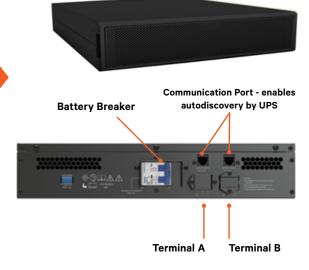




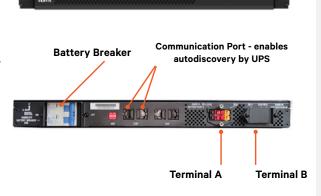
Vertiv™ Liebert® ITA2 External Battery Cabinet Options

[Liebert® ITA2 UPS does not contain internal/replacement battery kits]

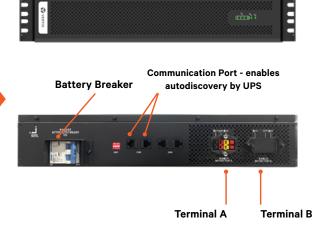
External Battery
Cabinet: VRLA (2U)



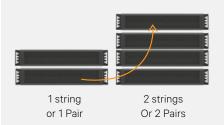
External Battery
Cabinet: Li-lon (1U)



External Battery
Cabinet: Li-lon (2U)



Scalable Backup Run Time



All Liebert® ITA2 EBC's come in strings/pairs.

Note:

- For both VRLA and Li-lon, each string consists of 2 external battery cabinets.
- The string is split to reduce the weight of each component and for ease of installation.
- For VRLA: Each cabinet is 2U in height
- For Li-ion: There are 1U and 2U battery cabinet options

For 15/20kVA 208V and 30/40kVA 400V UPS :To guarantee back up time, Vertiv™ recommends configuring at least "2 Strings" of VRLA external battery cabinets and "1 String" of Lithium-Ion battery cabinets.

More of What You Need: High Power Density

The Vertiv™ Liebert® ITA2 is designed with a high power factor in a small footprint. This increased power density maximizes the usable power to meet the needs of advanced IT operations.

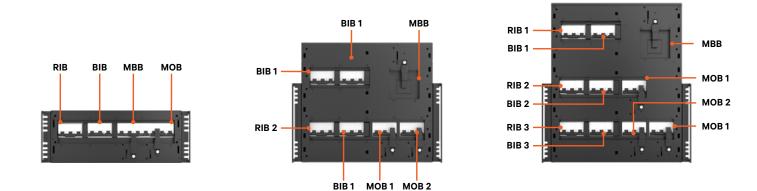


Maintenance Bypass Cabinet Enables Availability and Flexibility

Utilize the optimized maintenance bypass option to enhance availability and keep your critical systems running during routine service or replacement. A maintenance bypass interlock ensures proper bypass operation

The optional maintenance bypass cabinet, available for a single UPS operation at 15/20kVA @ 208V or 30/40kVA @ 400V, comes in a compact 4U size.

To enhance capacity and redundancy, the intelligent paralleling function in Liebert® ITA2 is activated by utilizing specialized Maintenance Bypass cabinets, which come in 9U and 12U sizes. 9U Maintenance bypass cabinet is dedicated to achieve (1+1) redundancy or (2+0) paralleling capability in a two UPS configuration. Likewise, a 12U MBC is dedicated to achieve (2+1) paralleling for capacity and back-up/redundancy in a three UPS configuration.



Front view (panel off) offers easy access to breakers; RIB- Rectifier Input Breaker; BIB-Bypass Input Breaker; MBB- Maintenance Bypass Breaker; MOB-Main Output Breaker



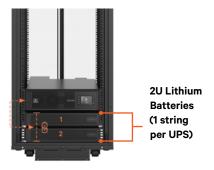


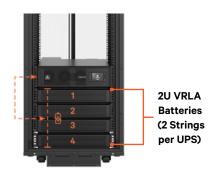
Vertiv™ Liebert® ITA2 UPS and Maintenance Bypass - Configurations

Single UPS configuration

For single UPS configuration with either of these ratings 15/20kVA 208V or 30/40kVA 400V, to guarantee the back up time the Liebert® ITA2 would require either 1 string of Lithium-Ion external batteries or 2 strings of VRLA batteries.

Optional maintenance bypass cabinet (MBC), utilizing 4U of rack space is available for single UPS configurations.





Optional 4U MBC for Single UPS Configuration



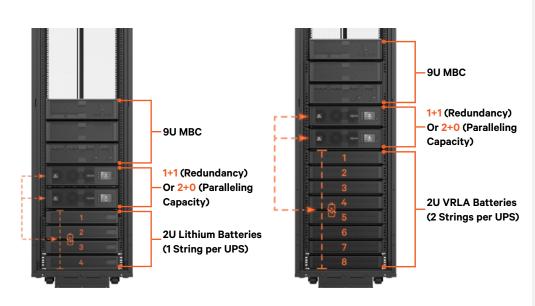


Two ups configuration (1+1) or (2+0)

Dedicated use of a maintenance bypass cabinet (MBC), occupying 9U of rack space is utilized to achieve redundancy/paralleling capability.

For redundancy, the Liebert® ITA2 15/20kVA, 208V and 30/40kVA 400Vcan connect up to two units with one module utilized for 1+1 redundancy.

For increased capacity, the Liebert® ITA2 comes with an integrated intelligent paralleling function. The Liebert® ITA2 has the ability to manage the active UPS modules supporting the critical load to maximize the total system efficiency. The Liebert® ITA2 15/20kVA 208V allows you to connect two units in parallel to double the capacity to 30/40kVA @208V. Similarly, the 30/40kVA 400V model can also be connected in pairs to reach a capacity of 60/80kVA @400V.



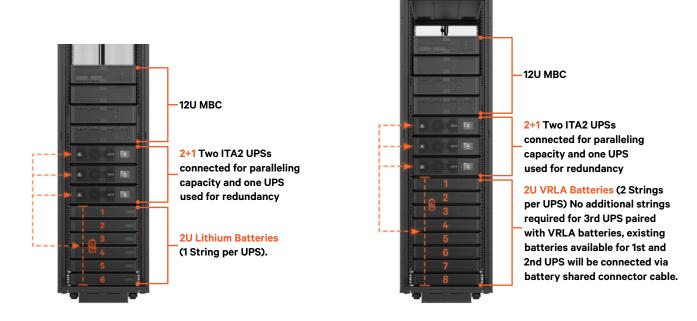
9U MBC for Two UPS Configuration (N+1) or (2+0)





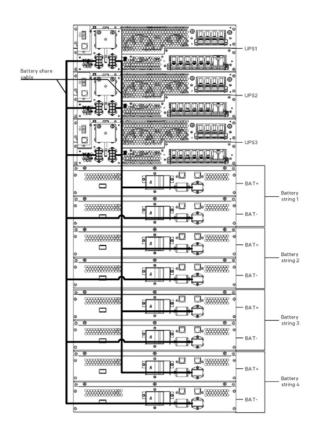
Three UPS Configuration- (2+1)

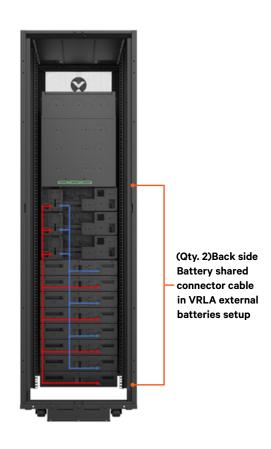
For increased capacity and redundancy, the 15/20kVA 208V Liebert® ITA2 can connect three UPS units for a capacity up to 40kVA 208V and one redundant (2+1). Similarly, 30/40kVA 400V ITA2, can connect three UPS units for a capacity up to 80kVA 400V and one redundant (2+1).



Backside- Shared Battery Connector Cable

In a three-UPS with VRLA battery configuration, the third UPS used for redundancy purposes does not require additional battery strings. This is made possible by a shared battery connector cable that can be used to connect the third UPS to the existing battery strings of the first and second UPSs. This setup allows for deployment in a standard 42U rack [The shared battery connector cable is included in the 2+1 configuration.]



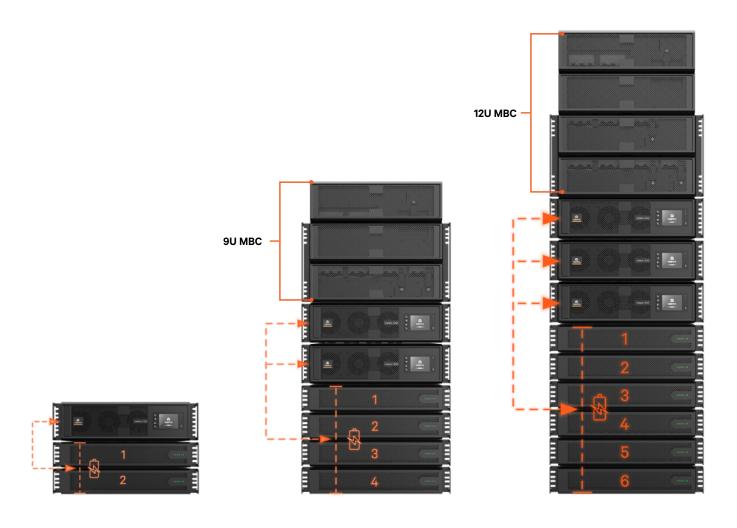




Vertiv[™] Liebert[®] ITA2 UPS and Maintenance Bypass - Bundled SKU's

[Available only through Broadline Distribution]

ITA2 Bundled SKUs with only **2U Lithium-Ion Batteries** (Only available for 208V units) for single UPS configurations. [1 string/pair of lithium batteries per UPS]

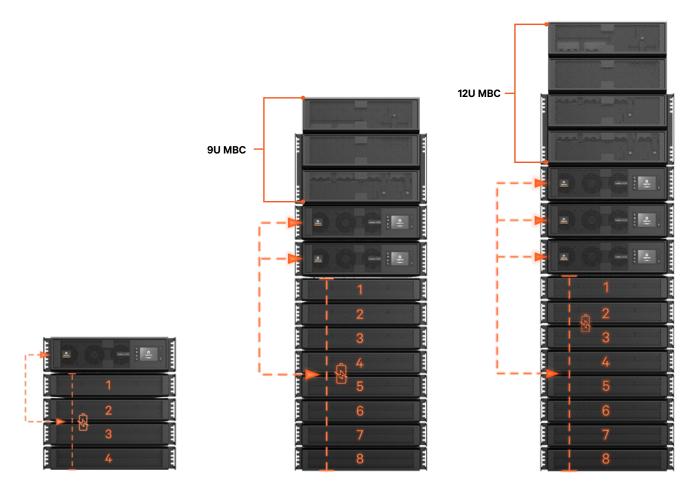


Single UPS Co	onfiguration	Two UPS: 1+ ² for Redundar	l Configuration cy SKU's	Three UPS: 2 + 1 Configuration for paralleling &redundancy			
Total Rack Space (UPS+ Li-lon Bat = 3U + 4U = 7U	•	Total Rack Space (UPS+MBC+VRL = 6U + 9U + 8U=	A Batteries)	Total Rack Space Required (UPS+MBC+VRLA Batteries) = 9U + 12U + 12U = 33U			
		One Module is us	ed for redundancy or backup purpose	Two Modules used for paralleling/capacity increased One module for redundancy/backup			
15kVA 208V	ITA2LI-15KRT208V7UN	15kVA 208V	15kVA 208V ITA2LI-15KRT208V23URN		ITA2LI-30KRT208V33UPRN		
20kVA 208V	ITA2LI-20KRT208V7UN	20kVA 208V	ITA2LI-20KRT208V23URN	40kVA 208V	ITA2LI-40KRT208V33UPRN		
0 11 140000	41. IT10 (014.P0(0	Two UPS: 2 + 0 (or capacity incre	Configuration for paralleling sase SKUs				
Optional MBC SKU: ITA2-40KMBC40 Total Rack Space required with Optional MBC: 3U + 4U + 4U= 11U		Two Modules use	Two Modules used for paralleling/capacity increase				
		30kVA 208V	30kVA 208V ITA2LI-30KRT208V23UPN				
		40kVA 208V	ITA2LI-40KRT208V23UPN				

Vertiv[™] Liebert[®] ITA2 UPS and Maintenance Bypass - Bundled SKU's

[Available only through Broadline Distribution]

ITA2 bundled SKUs with only **2U VRLA Batteries** (Available for both 208V and 400V units) [2 strings/pairs of VRLA batteries per UPS]



Single UPS Co	onfiguration	Two UPS: 1+1 for Redundan	Configuration cy SKUs	Three UPS: 2 + 1 Configuration for paralleling & redundancy			
Total Rack Space (UPS+VRLA Batto = 3U+8U=11U	-	Total Rack Space (UPS+MBC+VRL = 6U + 9U + 16U	A Batteries)	Total Rack Space Required (UPS+MBC+VRLA Batteries) = 9U + 12U + 16U = 37U			
		One Module is use	ed for redundancy or backup purpose		for paralleling/capacity increase or redundancy/backup		
15kVA 208V	ITA2-15KRT208V11UN	15kVA 208V	ITA2-15KRT208V31URN	30kVA 208V	ITA2-30KRT208V37UPRN		
20kVA 208V	ITA2-20KRT208V11UN	20kVA 208V	ITA2-20KRT208V31URN	40kVA 208V	ITA2-40KRT208V37UPRN		
30kVA 400V	ITA2-30KRT400V11UN	30kVA 400V	ITA2-30KRT400V31URN	60kVA 400V	ITA2-60KRT400V37UPRN		
40kVA 400V	ITA2-40KRT400V11UN	40kVA 400V	ITA2-40KRT400V31URN	80kVA 400V	ITA2-80KRT208V37UPRN		
		Two UPS: 2 + 0 C or capacity incre	Configuration for paralleling ase SKUs				
		Two Modules used	d for paralleling/capacity increase				
•	U: ITA2-40KMBC40 required with Optional MBC:	30kVA 208V	ITA2-30KRT208V31UPN				
3U + 8U + 4U= 15U		40kVA 208V	ITA2-40KRT208V31UPN				
		60kVA 400V	ITA2-60KRT400V31UPN				
		80kVA 400V	ITA2-80KRT208V31UPN				



Vertiv[™] Liebert[®] ITA2 UPS Bundled SKUs -Wire Sizing Guide

ITA2 UPS Ratings	Со	rresponding Bundle S	SKUs Configurations	Recommended Wire Size (L/N/G)	Recommended Breaker Size	Recommended Lugs	Number of Wires
		Single UPS	ITA2LI-15KRT208V7UN				
		Two UPS (1+1)	ITA2LI-15KRT208V23URN				
	Lithium-Ion	Two UPS (2+0)	ITA2LI-30KRT208V23UPN			L: McMaster-Carr-6926K54	
1E (200V)		Three UPS (2+1)	ITA2LI-30KRT208V33UPRN	L: 2AWG	75.		5
15 (208V)		Single UPS	ITA2-15KRT208V11UN	N: 2AWG G: 6AWG	75A	N: McMaster-Carr-6926K54 G: McMaster-Carr-7113K366	Ü
	VDI A	Two UPS (1+1)	ITA2-15KRT208V31URN				
	VRLA	Two UPS (2+0)	ITA2-30KRT208V31UPN				
	Three U		ITA2-30KRT208V37UPRN				
		Single UPS	ITA2LI-20KRT208V7UN				
	Lithium-lon	Two UPS (1+1)	ITA2LI-20KRT208V23URN				
	Litinam ion	Two UPS (2+0)	ITA2LI-40KRT208V23UPN				
20(208)()		Three UPS (2+1)	ITA2LI-40KRT208V33UPRN	L: 2AWG	1004	L: McMaster-Carr-6926K54	5
20(208V)		Single UPS	ITA2-20KRT208V11UN	N: 2AWG G: 6AWG	100A	N: McMaster-Carr-6926K54 G: McMaster-Carr-7113K366	ŭ
	VDI A	Two UPS (1+1)	ITA2-20KRT208V31URN				
	VRLA	Two UPS (2+0)	ITA2-40KRT208V31UPN				
		Three UPS (2+1)	ITA2-40KRT208V37UPRN				
		Single UPS	ITA2-30KRT400V7UN				
20 ((00) ()	VDI A	Two UPS (1+1)	ITA2-30KRT400V31URN	L: 2AWG	75 4	L: McMaster-Carr-6926K54 N: McMaster-Carr-6926K54	5
30 (400V)	VRLA	Two UPS (2+0)	ITA2-60KRT400V31UPN	N: 2AWG G: 6AWG	75A	G: McMaster-Carr-7113K366	Ü
		Three UPS (2+1)	ITA2-60KRT400V37UPRN				
		Single UPS	ITA2-40KRT400V11UN				
40 (400)	VDI A	Two UPS (1+1)	ITA2-40KRT400V31URN	L: 2AWG	1004	L: McMaster-Carr-6926K54	5
40 (400V)	VRLA	Two UPS (2+0)	ITA2-80KRT208V31UPN	N: 2AWG G: 6AWG	100A	N: McMaster-Carr-6926K54 G: McMaster-Carr-7113K366	J
		Three UPS (2+1)	ITA2-80KRT208V37UPRN				

Vertiv™ Liebert® ITA2 UPS

2U VRLA Battery Run Time Charts (15 and 20kVA 208V)

For VRLA batteries, it is recommended to use 2 strings per ITA2 UPS to get significant amount of runtime.

		Load Level										
UPS Model	Battery String Qty.	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%	
		15kW	13.5kW	12kW	10.5kW	9kW	7.5kW	6kW	4.5kW	3kW	1.5kW	
4	2	9	10.0	11.5	14	18	23	31	45	72	157	
/ VRL	3	15	17.5	21	25	31	40	52	72	112	251	
208V	4	23	26.5	31.0	37	45	56	72	99	160	345	
15kVA	5	31	36.0	42	49	59	72	93	129	207	439	
5	6	40	45	52	61	72	88	112	159	252	523	

		Load Level										
UPS Model	Battery String Qty.	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%	
		20kW	18kW	16kW	14kW	12kW	10kW	8kW	6kW	4kW	2kW	
ILA.	2	6	6.5	7.5	10	12	15	21	31	52	111	
V VRL	3	10	11.5	14	17	21	27	37	52	82	182	
208V	4	15	17.5	21.0	26	31	40	52	72	112	253	
20kVA	5	21	24.5	29	34	42	52	67	93	148	324	
	6	27	32	37	43	52	64	82	113	184	395	

2U VRLA Battery Run Time Charts (30 and 40kVA 400V)

						Load	Level				
UPS Model	Battery String Qty.	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
		30kVA	27kVA	24kVA	21kVA	18kVA	15kVA	12kVA	9kVA	6kVA	3kVA
	2	3	4	4	5	7	9	12	18	31	72
	3	6	7	8	10	12	15	21	31	52	112
VRLA	4	9	10	12	14	18	23	31	45	72	160
	5	12	14	16	20	25	31	42	59	93	207
30kVA 400V	6	15	18	21	26	32	40	52	72	113	255
¥	7	19	22	26	32	38	48	62	86	137	303
30	8	23	27	32	37	45	56	72	100	161	351
	9	27	32	37	43	52	64	83	113	185	398
	10	32	36	42	49	59	72	93	129	209	446



l nad	ו בעבו

UPS Model	Battery String Qty.	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
	,	40kW	36kW	32kW	28kW	24kW	20kW	16kW	12kW	8kW	4kW
	2	1.5	2	2.5	3	4	5.5	7.5	11.5	21	51.5
	3	3.5	4	5	6	7.5	10	14	21	36.5	81.5
VRLA	4	5.5	6.5	7.5	9.5	11.5	15	21	31	52	112
>	5	7.5	9	10.5	13	16	21	28.5	41.5	67	148
4000	6	10	11.5	14	17	21	27	36.5	52	82	184
40kvA	7	12.5	14.5	17.5	21	26	33.5	44.5	62	97.5	220
40	8	15	18	21	25.5	31.5	39.5	52	72	113	256
	9	18	21	25	30	36.5	46	59.5	82.5	131	292
	10	21	24.5	28.5	34.5	41.5	52	67	92.5	149	328

2U Lithium Ion Battery Run Time Charts (15 and 20kVA 208V)

For lithium-ion batteries, it is recommended to use only 1 string per ITA2 UPS to get significant amount of runtime

_	
1004	Leve
Loau	Leve

UPS Model	Battery String Qty.	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
Model	July 21,	15kW	13.5kW	12kW	10.5kW	9kW	7.5 kW	6kW	4.5kW	3kW	1.5kW
	1	7	8	9	10	12	14	19	21	36	86
6	2	15	16	18	21	25	30	39	51	78	173
(2U)Lithium-lon	3	22	25	28	32	38	47	59	81	120	260
Ę.	4	30	34	38	43	52	63	79	109	161	345
(20)	5	38	43	48	55	66	78	99	137	202	430
15kVA	6	47	52	59	67	80	93	119	165	243	515
5	7	56	62	70	79	94	109	139	193	284	600
	8	65	72	80	91	108	125	159	221	325	685

UPS Model	Battery String Qty.	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
		20kW	18kW	16kW	14kW	12kW	10kW	8kW	6kW	4kW	2kW
	1	10	11	14	16	18	23	28	38	59	111
<u>o</u>	2	22	25	28	32	39	46	58	78	121	224
Lithium-lon	3	34	38	44	50	59	72	89	120	182	337
	4	47	52	58	67	79	97	120	161	242	447
(20)	5	59	66	72	84	99	122	151	202	302	557
20kVA	6	71	80	86	101	119	147	182	243	362	667
20	7	83	94	100	118	139	172	213	284	422	777
	8	95	108	114	135	159	197	244	325	482	887

Vertiv™ Liebert® ITA2 UPS Specifications

ITEM		15 kVA 208V	20kVA 208V	40kVA 400V			
Part Number							
	Rated Voltage	208/220VAC, 3-Phase,	4W+Gnd	230VAC, 3-Phase, 4W+Gnd			
		96~156V with full	load	176~288V with full load			
Input 3 Phase	Voltage Range, VAC	70~96V linear deci	100~176V linear decrease				
		70V with half lo	100V with half load				
	Rated Frequency		50/60Hz				
	Frequency Range		40Hz~70Hz				
	Power Factor		≥0.99, at full load; ≥0.98, at half	load			
	Rated Power	15 kVA/15kW	20kVA/20kW	40kVA/40kW			
	Voltage	208/120VAC or 220/127VAC (3	Phase, 4W + Gnd)	230VAC, 3-Phase, 4W+Gnd			
	Frequency Synchronization Range	Rated fre	quency ± 3Hz. Configurable range	e: ±0.5 Hz~±5Hz			
	Frequency Track Rate	0.5Hz/s. Configurable	0.5Hz/s. Configurable range: 0.2/0.5/1Hz/s (single UPS), 0.2Hz/s (parallel system)				
	Rated Power Factor	1					
	Crest Factor		3:3				
Output 3 Phase	Voltage Harmonic Distortion		< 2% (linear load); < 5% (non-linea	r load)			
	Dynamic Response Recovery Time		40ms				
	Overload Capacity	At 25°C: 105% ~ 125	%, 10min; 125% ~ 150%, 1min; 150%	%~200%,5s; >200%, 200ms			
		Upper Limit: +10%, +15%, +20	%; Default +10%	Upper Limit: +10%, +15%, +20%; Default +20%			
	Bypass Voltage	Lower Limit: -10%, -20%, -30%, -	40%: Default -10%	Lower Limit: -10%, -20%, -30%, -40%; Default -40%			
	AC-AC Efficiency	Up to 93%	.,	Up to 96.5%			
	Туре	Sealed, Lead-Acid, Maintenance-Fr	ee & LFP Lithium Ion	Sealed, Lead-Acid, Maintenance-Free			
	Cell No.	24, 32; Default 3		24, 26, 28, 30, 32, 34, 36, 38, 40; Default 32			
Battery	Rated Voltage		384VDC	_,_,_,_,			
	Maximum Charge Current, A		13				
	Utility to Battery		0				
Transfer Time		Synchrono	us Transfer: ≤0ms Asynchronous	Transfer: ≤20ms			
	Inverter to Bypass		, 60ms, 80ms, 100ms and 120ms a				
Noise			<63				
Panel Display Mode			Color LCD				
Safety			CSA				
		UL&cUL (UL 1778 5th Ec					
EMC	Conducted & Radiated Emissions		FCC Part 15, Class A				
Surge Protection			ANSI C62.41 Category A				
Protection Level			IP20				
	Operating Temperature		50°C), automatic derating to 80%				
Ambient Condition	Storage Temperature	No Battery: -40 ~ 158°F (-40 ~ +70°C); With Battery: -13 ~ 131°F (-25 ~ +55°C)					
	Relative Humidity	5% RH ~ 95% RH, non-condensing					
	Altitude, ft. (m)	Sea	Level to 10,000 ft. (3000m) witho				
	UPS		16.9 x 25.8 x 5.1 (430 x 656 x 13	30)			
	VRLA Battery Cabinet - ITA2- BCI0020K02 (Quantity of 2)	16	.9 x 29.6 x 3.3 (430 x 751 x 85) per	r cabinet			
Dimensions, W x D x H,	2U Li-Ion Battery Cabinet ITA2-BCI0020KL2 (Quantity of 2)	Net:	16.9 x 26.77 x 3.35 (430x680x85)	per cabinet			
in. (mm)	Single MBC		16.9 x 28.7 x 6.8 (430 x 730 x 1	73)			
	2+0 Parallel MBC	16.9 x 32.0x 15.5 (430 x 814 x 393)					
	2+1 Parallel MBC	16.9 x 32.0x 20.6 (430 x 814 x 523)					
	UPS		Net: 66.1 (30) Shipping: 88.2 (4				
	VRLA Battery Cabinet	Net: 115 (52.2) each Shipping: 306.4 (139)					
	2U Li-lon Battery Cabinet		Net: 70.5 (32) Shipping: 229.3 (
Weight, lb. (kg)	Single MBC		Net: 52.2 (23.7) Shipping: 79.4 (
	2+0 Parallel MBC		Net: 91.9 (41.7) Shipping: 136.7(
	2+1 Parallel MBC		Net: 116.8 (53.0) Shipping: 175.1 (

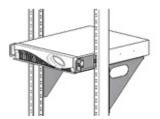


Available Accessories for the Vertiv[™] Liebert[®] ITA2 UPS

External Battery Cabinets [Liebert® ITA2 UPS does not contain Internal/Replacement Battery Kits]

UPS	External battery cabinets	Internal / Replacement Battery Kits
ITA2-15KRT208C	ITA2-BCI0020K02 (Qty. of 2) VRLA	N/A
	ITA2-BCI0020KL12(Qty. of 2) For (2U) Li-lon	
ITA2-20KRT208C	ITA2-BCI0020K02 (Qty. of 2) VRLA	N/A
	ITA2-BCI0020KL12(Qty. of 2) For (2U) Li-ion	
ITA2-30KRT400C	ITA2-BCI0020K02 (Qty. of 2) VRLA	N/A
	ITA2-BCI0020KL12(Qty. of 2) For (2U) Li-ion	
ITA2-40KRT400C	ITA2-BCI0020K02 (Qty. of 2) VRLA	N/A
	ITA2-BCI0020KL12(Qty. of 2) For (2U) Li-ion	

^{*}EBCs are hot-swappable, user-replaceable to allow for the full EBC to be replaced, as needed. Up to 5 pairs/strings of VRLA EBCs can be used per UPS and up to 8 pairs/strings of Li-lon EBC's can be used per UPS.



Center mounting (RS600 & RS800)



Flush mounting (RS500 & RS700)



Fixed Rail Kits for all Liebert® ITA2 Rack-Tower Models (ITA2-RMKIT)

Rack Mounting Kit Options

Application	Model Supported	Style	Model	Description
		Shelf	RS500	Flush-mount shelf for 19" rack wide
2 Post Rack (One shelf	Liebert® ITA2 UPS	Shelf	RS600	Center-mount shelf for 19" rack wide
required for each cabinet in the system)	(8kVA and 10kVA)	Shelf	RS700	Flush-mount shelf for 23" rack wide
		Shelf	RS800	Center-mount shelf for 23" rack wide
4 Post, Fixed Mounting Rails (Included as standard with Liebert® ITA2 UPS and EBC models	Liebert® ITA2 UPS (8kVA and 10kVA)	Bracket	ITA2-RMKIT	Rail kits are adjustable from 17.5" – 32.5" and includes hardware for mounting fixed rails to rack assembly

Note: RS600 and RS800 kits include adapter brackets for mounting the Liebert® ITA2 Models.

Network communications and environmental sensors (standard on Liebert® ITA2 8000 and 10000VA models)

Network Communications	IS-Unity DP	Intellislot™ web card for SNMP and web management. Supports environmental sensors.
	IS-RELAY	Intellislot™ Interface Kit for Relay Contacts
Environmental Sensors (Compatible with	SN-Z01	Integrated cable with single temperature sensor
optional Liebert® network card IS-UNITY DP)	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-TH	Modular with single temperature and single humidity 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

The Vertiv™ Liebert® ITA2 offers an intuitive control panel, network connectivity communications card and optional software monitoring, all designed to ensure visibility, control and peace of mind for manned or unmanned locations. You can even monitor key environmental and room conditions.

Vertiv™ Power Insight

Vertiv Power Insight is an application that can monitor your Vertiv™ Liebert® UPS systems and provide real-time trending for critical UPS performance management. In the event of a need to shutdown the UPS, the software ensures a graceful shutdown routine so no damage occurs to the data or systems.

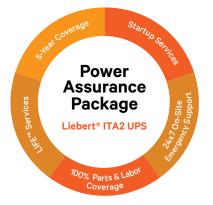


Service and Support

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

Vertiv also has a full line of racks and rack PDUs.





Vertiv™ Liebert® Power Assurance Package

> Vertiv™ LIFE™ Services provides secure, remote monitoring by experts to provide early detection and response.

The Power Assurance Package from

Vertiv Services gives you a trusted

partner and a complete, worry-free

power protection solution to assure

uptime at your small or remote IT sites.



Vertiv™ LIFE™ Services

Technical Support / Service

Website: www.Vertiv.com | Monitoring: Liebert.Monitoring@Vertiv.com | 800-222-5877 | Outside North America: +00800-1155-4499 | Three-Phase UPS & Power Systems 800-543-2378 | Outside North America: 614-841-6598

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).



Liebert® ITA2 UPS- Services

Power Assurance Package

Bundled Start-up Service AND 5-Year On-site Emergency Response	Standard	With LIFE™ Services	With Removal	With LIFE™ and Removal
Equipment Model / Type	Part Number	Part Number	Part Number	Part Number
Liebert® ITA2 5-40 KVA	PAPITA-5-40K	PAPITA-5-40KLF	PAPITA-5-40KRMV	PAPITA-5-40KRLF
External Battery Cabinets-VRLA (192V)	PAPITA-BATT	N/A	PAPITA-BATTRMV	N/A
External Battery Cabinets-Lithium Ion (192V)	PAPITA-LI192VBATT	N/A	PAPITA-LI192VBATTRMV	N/A

Power Startup Services

Startup Service Only (7x24)	Standard	With Removal	
Equipment Model / Type	Part Number	Part Number	
Liebert® ITA2 5-40 KVA	SUITA-5-40U7	N/A	
External Battery Cabinets-VRLA (192V)	SUITA-EXTBTCBU7	N/A	
External Battery Cabinets-Lithium Ion (192V)	SUITA-EXTBTCBU7	N/A	
Liebert® ITA2 5-40 KVA Maintenance Bypass Cabinet (MBC)	SUITA2-5-40UM	N/A	
Startup Service Only Mon-Fri (8x5)	Standard	With Removal	
Startup Service Only Mon-Fri (8x5) Equipment Model / Type	Standard Part Number	With Removal Part Number	
Equipment Model / Type	Part Number	Part Number	
Equipment Model / Type Liebert® ITA2 5-40 KVA	Part Number SUITA-5-40MF85	Part Number N/A	

Power Emergency Services

5-Year On-site Emergency Coverage - Only	Standard	With LIFE™ Services	
Equipment Model / Type	Part Number	Part Number	
Liebert® ITA2 5-40 KVA	PEPITA-5-40K5YR	PEPITA-5K40KLF	
External Battery Cabinets-VRLA (192V)	PEPITA-BATT5YR	N/A	
External Battery Cabinets-Lithium Ion (192V)	PEPITA-LI192VBATT5YR	N/A	

Liebert® ITA2 Extended Waranty (5-40kVA)

	Additional 1 Year	Additional 3 Years	
Equipment Model/Type	Warranty Part Number	Warranty Part Number	
Liebert® ITA2 5-40 KVA	1WEITA2-40K208	3WEITA2-40K208	
External Battery Cabinets-VRLA (192V)	1WEITA2-EBC	3WEITA2-EBC	
External Battery Cabinets-Lithium Ion (192V)	N/A	N/A	
Liebert® ITA2 5-40 KVA Maintenance Bypass Cabinet (MBC)	1WEITA2-MBC	3WEITA2-MBC	

Vertiv[™] Liebert[®] ITA2 UPS 5-40kVA 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® ITA2 5-40kVA	MUITA2-40K1PM85	MUITA2-40K1PM24	MUITA2-40KBA0	MUITA2-40KES1	MUITA2-40KPR1

Labor Warranty Supplement (AC Power Equipment Labor Warranty)

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) 	\checkmark			\checkmark	
 Includes 1 Preventive Maintenance Service, scheduled by the customer at the customer's convenience 24x7 (excluding national holidays). 		\checkmark			\checkmark
 Includes a Performance Evaluation inspection performed immediately after the completion of an emergency visit. 			\checkmark		
Customer Support:					
Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv Customer Services Network Online Internet portal.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
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.			\checkmark	✓	\checkmark
Parts:					
Includes parts coverage.			✓	✓	\checkmark
Labor and Travel:					
Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.			\checkmark	✓	\checkmark
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				\checkmark	\checkmark
Battery Recycling:					
Includes battery recycling as required, with documentation meeting EPA requirements				✓	✓



© 2024 Vertiv Group Corp. All rights reserved. Vertiv[™] and the Vertiv logo are trademarks or registered trademarks of Vertiv Group Corp. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness here, Vertiv Group Corp. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications, rebates and other promotional offers are subject to change at Vertiv's sole discretion upon notice.