LITHIUM-ION BATTERIES

BENEFITS

These batteries have higher energy density, leaving more space for servers.

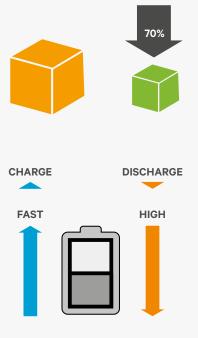
Lithium-ion batteries also have longer battery life and wider temperature range leading to a save on replacement and cooling costs respectively.

What's more, lithium-ion technology has a higher charge rate and a slower self-discharge rate, meaning it recharges faster and maintains a longer shelf life to alternative solutions.

VRLA

LONGER LIFE

SAVES SPACE



Lithium-ion batteries bring modern advancements to data center applications.

FEATURES	VRLA	LI-ION
Expected Life (years)	Medium	Long (approx. 2-3X)
Decay vs. Temperature @30°C	>50%	<20%
Energy Density	Standard	High
Recharge	Moderate	Fast
Cooling required	Moderate	Low
Footprint 400kVA, 5 min	Large	Small (-70%)
Weight 400kVA, 5 min	High	Low (-70%)
BMS	Optional	Included

Note: Different types of Lithium-ion chemistries exist, each with varying behaviors. The above chart summarizes the traits.





UPS	CORE	NUMBER OF CABINETS (17 BLOCKS, 67 Ah)								
		1	2	3	4	5	6	7	8	
Liebert [®] Trinergy™ Cube	200 kVA	8.9	18.8	28.3	37.8	47.2	57.2	66.8	76.3	
PF: 0.9	400 kVA	N/A	8.9	14	18.8	23.6	28.3	33	37.7	

UPS	CORE	NUMBER OF CABINETS (17 BLOCKS, 67 Ah)								
		1	2	3	4	5	6	7	8	
Liebert [®] Trinergy™ Cube	200 kVA	6.6	17	25.5	34	42.5	51	59.5	68.7	
PF: 1	400 kVA	N/A	6.6	12.6	17	21.2	25.5	29.7	34	

UPS	POWER	NUMBER	NUMBER OF CABINETS (17 BLOCKS, 67 Ah)								
0P5	(KVA)	1	2	3	4	5	6	7	8		
	100	18.8	37.7	57.2	76.3	95.4	114.5	135	154.3		
	120	15.7	31.4	47.2	63.6	79.5	95.4	111.3	128.6		
	160	11.6	23.6	35.4	47.2	59	71.6	83.5	95.4		
Liebert° EXL S1 PF: 0.9	200	8.9	18.8	28.3	37.8	47.2	57.2	66.8	76.3		
	300	N/A	12.4	18.8	25.1	31.4	37.7	44	50.3		
	400	N/A	8.9	14	18.8	23.6	28.3	33	37.7		
	500	N/A	N/A	11.2	14.9	18.8	22.6	26.4	30.2		
	600	N/A	N/A	8.9	12.4	15.5	18.8	22	25.1		
	800	N/A	N/A	N/A	8.9	11.6	14	16.3	18.8		
	1000	N/A	N/A	N/A	N/A	8.9	11.2	13.9	14,9		
	1200	N/A	N/A	N/A	N/A	N/A	8.9	10.9	12.4		

UPS	POWER	NUMBER OF CABINETS (17 BLOCKS, 67 Ah)								
	(KVA)	1	2	3	4	5	6	7	8	
	100	17	34	51	68.7	85.9	103,1	121,5	138,8	
	120	14	28.3	42.5	56.6	71.6	85.9	100.2	114.5	
	160	10.5	21.2	31.8	42.5	53.1	64.4	75.1	85.9	
Liebert° EXL S1 PF: 1	200	6.6	17	25.5	34	42.5	51	59.5	68.7	
	300	N/A	11.2	17	18.1	28.3	34	39.6	45,3	
	400	N/A	6.6	12.6	17	21.2	25.5	29.7	34	
	500	N/A	N/A	10	13.4	17	20.4	23.8	27.2	
	600	N/A	N/A	6.6	11.2	14	17	19,8	22.6	
	800	N/A	N/A	N/A	6.6	10.5	12.6	14.7	17	
	1000	N/A	N/A	N/A	N/A	6.6	10	11.7	13.4	
	1200	N/A	N/A	N/A	N/A	N/A	6.6	9.8	11.2	

Vertiv[™] has significant experience with lithium-ion batteries.

Testing since 2011

Installation success

• Compatible with Liebert EXL S1 and Liebert Trinergy Cube UPS

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