



Contractors' Quick Guide

Industry Leading IT Infrastructure Solutions



Uninterruptible Power Supplies

The critical systems that sustain your business operations can't go down. Vertiv supports you in improving your uptime with a full range of innovative uninterruptible power supplies (UPS) and future-proof, integrated UPS systems, that will cover the backup power needs of your IT infrastructure, from small computer rooms at the network edge to enterprise and hyperscale data centres. Discover the best uninterruptible power supplies to protect your application.

UPS	Power Rating	Unit Size (W x D x H) mm	Electrical Info		Compatibl Battery Type/s	Key Selling Point	Applications
			Input Nominal Voltage	Output Nominal Voltage			
 Vertiv™ Liebert® ITA2 Rack/Tower Mount UPS (Online Mode/Eco Mode)	30kVA	430 x 600 x 130	380/400/415 VAC 3 Phase, 4 Wire	380/400/415 VAC (3Phase)	VRLA; Lithium-Ion	- Reliability in a compact footprint - High availability - Rugged system structure	- Telecom - Edge Networks - Automation Industries - Data Centres - Server Farms
40kVA	430 x 730 x 130						
 Vertiv™ Liebert® EXS Monolithic UPS (Double Conversion/Eco Mode)	30kVA	440 x 750 x 1600	380 / 400 / 415 V (3 Phase + N + PE)	380 / 400 / 415 V (three phase + N + PE)	VRLA; Lithium-Ion	- Parallel capability up to 4 units - Single or three phase output configuration (up to 60kVA) - Full galvanic isolation for medical applications	- Central Power Supply System - Railways
40kVA							
60kVA	600 x 850 x 1600*						
80kVA							
 Vertiv™ Liebert® EXM2 Monolithic UPS (Double Conversion/Dynamic Online/Eco Mode)	100kVA	600 x 850 x 1600	380 / 400 / 415 (3Phase and sharing neutral with the bypass input)	380 / 400 / 415 (3 Phase and sharing neutral with the bypass input)	VRLA; Lithium-Ion	- Maximises energy savings - Saves up to 15% footprint over legacy systems - Flexible application	- Healthcare - Railway/Metro - Enterprise - Light Industries
120kVA							
160 kA							
200kVA	600 x 850 x 2000						
250kVA							
 Vertiv™ Liebert® MTP	10-200kVA	With or Without Internal Batteries 10,15,20kVA - 626 x 250 x 826 30-40kVA - 780 x 300 x 1000	380/400/415 VAC 3-Phase, 4 Wire	380/400/415 VAC (3-Phase)	VRLA	- Internal Innovative design reduces its footprint to a minimum - Provides continuous power protection with optimised internal runtime in a standalone solution, fit for IT applications. - Competitive Pricing	- Commercial buildings - Logistics - Facilities - Retail - E-Commerce - Education institutions - Financial institutions
		Without Internal Batteries 60kVA - 1000 x 320 x 800 80kVA - 790 x 360 x 1010 100-120kVA - 1000 x 430 x 1200 160-200 - 1000 x 600 x 1200					
 Vertiv™ Liebert® APM Plus Modular UPS (Double Conversion/ Dynamic Online/ Eco Mode)	50-250kVA	600 x 850 x 2000	380/400/415 (3-Phase and sharing neutral with the bypass input)	380/400/415 (3-Phase and sharing neutral with the bypass input)	VRLA; Lithium-Ion	- Energy savings and lowers TCO - Saves space up to 50% over legacy system - Compact and modular for increased flexibility and adaptability	- Enterprise - Data Centres - Cloud and Colo - Telecom IDC - Process Control Centres - Workstations



UPS	Power Rating	Unit Size (W x D x H) mm	Electrical Info		Compatible Battery Type/s	Key Selling Point	Applications
			Input Nominal Voltage	Output Nominal Voltage			
 Vertiv™ PowerUPS 6000 Industrial 3 Phase UPS: The backbone of industrial power	6-40kVA	600 x 850 x 1710	220/230/240V (Single-phase input model) 380/400/415V (Three-phase input model)	220/230/240V (Single-phase) 380/400/415V (Three-phase)	Lead acid, nickel cadmium, and lithium batteries *2	- Peak performance in extreme conditions - Flexible compatibility with battery options - Simplified installation and maintenance - Low TCO High reliability with IGBT technology - Compact footprint	- Communication - Railways - Airlines - Communication Systems - Data Centres - Security
	60-120kVA	800 x 850x 2250					
	200kVA	1000 x 850 x 2250					
 Vertiv™ Liebert® APM2 Rack/Tower Mount UPS (Online Mode/Eco Mode)	30-600kVA	30-120kW, 30kW Module (440 x 518 x 87)	380/400/415 V (3-phase 4-wire + N + PE)	380/400/415 V (three-phase + N + PE)	VRLA; Lithium-Ion	- Robust and proven design - Saves up to 30% space compared to other brands in the market. - Flexible Management Option & Advanced Monitoring	- Data Centres - Colocation - Education - Security - Government - Healthcare - Manufacturing - Telecom - Transportation
	40kVA	60-600kW, 60kW Module (440 x 600 x 132)					
 Vertiv™ PowerUPS 9000 Modular UPS (Double Conversion/ Dynamic Online/ Eco Mode)	250-1250kVA	2000 x 1000 x 2000	380V/400V/415V (305-478), 3Ph+N+PE	400 (380 to 415 selectable), 3Ph+N+PE	VRLA, Li-Ion, Ni-Zn	- No Interruptions Continuous power during maintenance - Easy, rapid power scaling - Integrates lithium-ion & nickel-zinc backup sources	- Banking - Financial and Insurance - Data Centres/ Colocation/ Hosting



Vertiv™ Powerbar

The **Vertiv™ Powerbar** patented range of busbar trunking ads overhead power distribution to your data centre, allowing increased accessibility to power loads for maintenance. Circuits can be added and removed easily as they are located just above their respective racks. This allows you to make changes in a cost-efficient and timely manner. Our Vertiv Powerbar products also compliment the Vertiv Switchgear range to provide a complete power distribution solution.

Busway and Busduct	Rated Current	Dimensions						Key Selling Point	Applications
		Copper			Aluminum				
 Vertiv™ Powerbar Track	160 - 1000A	Rated Current	4-Bar System	5-Bar System	Rated Current	4-Bar System	5-Bar System	• Built-in flexibility and scalability that supports change and growth • Assured and continuous power delivery to active loads • Ensured safety as verified by certification and compliance	• Data Centre of Any Size • Dynamic IT Environment • Colocation • Banking & Finance • Construction & Engineering • Government
		160	44 x 175	44 x 210	160	44 x 175	44 x 210		
		250			250				
		400			400				
		630	52 x 180	52 x 215	630	52 x 180			
		800			800	74 x 202	74 x 235		
					1000				

Switchgear	Amperage (A)	Poles	Dimensions			Key Selling Point	Applications
			Width	Depth	Height		
 Vertiv™ PowerBoard Low Voltage Switchgear	800 - 1600	3	576	768	1920	- Built-in flexibility and scalability that supports change and growth - Assured and continuous power delivery to active loads - Ensured safety as verified by certification and compliance	- Data Centre of Any Size - Dynamic IT Environment - Colocation - Banking & Finance - Construction & Engineering - Government
	800 - 1600	4	768	768	1920		
	2000 - 3200	3.4	768	768	2304		
	4000	3.4	768	768	2304		

PDU System	Configure	Poles	Dimensions			Key Selling Point	Applications
			Width	Depth	Height		
 Liebert® RXA	Single	84	603	328	2000	- Reliable uninterrupted power distribution for your IT infrastructure - High power density - Available in two ratings 250 Amps or 400 Amps - Flexible and scalable - Hot-swappable panel board system - Intelligent oversight with Liebert DPM monitoring system	- Small to large Data centres - Server rooms - Network closets - Remote facilities
	Double	168	603	603	2000		
	Double	168	1207	328	2000		
	Triple	252	932	603	2000		
	Quadruple	336	1260	603	2000		



Thermal Management

Your mission-critical facilities need the very best in precision cooling, and we deliver with the industry's most advanced equipment and controls, low operating costs and unparalleled expertise. Get efficient and reliable heat management and humidity control solutions geared to your specific size, location and business goals.

CRAC Unit	Air Discharge	Net Sensible Cooling Capacity (kW)	Dimension (W x D x H)	Fan Section		Compressor	
				Air Flow (m³/hr)	Fan No.	No. of Comp	Compressor Type
 Vertiv™ Liebert® SRC-G (3-11kW) Air Cooled Wall-Mounted Cooling Unit (with outdoor condenser)	Upflow	2.7	618 x 232 x 490	934.5	1	1	Rotary
		6.75	1028 x 232 x 490	1954	2		Scroll
		6.75	1028 x 232 x 490	1954	2		
	Upflow	9.96	1400 x 355 x 490	2805	3		
	Electrical Info		Key Benefits			Applications	
	220 V, 1 Ph, 50 Hz		- Indoor unit takes up no floor space - Advanced controller that can sequence 8 units - High ambient operation			- UPS & Battery Rooms - IT Rooms - Control Rooms - VFD Rooms - Electrical Rooms - ATMs	
	380 V, 3 Ph, 50 Hz						

 Vertiv™ Liebert® DM (7-27kW) Air Cooled Room Cooling Unit	Upflow	6.75	510 x 385 x 1850	2000	1	1	Copeland Scroll Compressors
		11.25	600 x 500 x 1975	3300			
		15.3	750 x 650 x 1975	4300			
	Upflow	19.8	800 x 765 x 1975	6000			
	Downflow	19.8	800 x 765 x 1975	6300			
	Upflow	25.3	850 x 835 x 1975	7300			
	Downflow	25.3	850 x 835 x 1975	8100			
	Electrical Info		Key Benefits			Applications	
	400 V, 3 Ph, 50 Hz (Option: 380 V to 415 V, 3 Ph, 60 Hz)		- Space Saving - Energy efficient components - Full front door access			- Small and medium computer rooms - UPS and batteries rooms - Outdoor electronic and communication equipment rooms - Transformer stations and substation	

 Vertiv™ Liebert® CRV4 (12-66kW) Air Cooled / Water Cooled / Chilled Water In-Row Cooling Unit (with outdoor condenser)	Frontflow	13.9	2000 x 300 x 1100	4200	6	1	Variable Capacity Brushless DC Inverter Compressor
		28.8	2000 x 300 x 1100	5500	6		
		33.4	2000 x 300 x 1100	6300	7		
		40.9	2000 x 600 x 1100	8500	8		
		47.5	2000 x 600 x 1100	10200	10		
		60.9	2000 x 600 x 1100	12000	12		
	Electrical Info		Key Benefits			Applications	
	380 to 415 V 10 , 3 Ph + 1, ~ 50 Hz / 60 Hz		- High capacity in ultra compact footprint - Designed for reliability and efficiency - Ease of management and service			Suitable for small computer rooms to large data centres (>8 kW/rack).	

CRAC Unit	Air Discharge	Net Sensible Cooling Capacity (kW)	Dimension (W x D x H)	Fan Section		Compressor			
				Air Flow (m³/hr)	Fan No.	No. of Comp	Compressor Type		
 Vertiv™ Liebert® CRV+ (30-65kW) Chilled Water Row-Based Cooling Unit (with outdoor condenser)	Directing air to the front of the racks	36.5	300 x 1100 x 2000	5100	8	5.58	2 Way Motorised valve		
		36.5	300 x 1200 x 2200	6000		6.5			
		59.1	600 x 1100 x 2000	9300	3	10.2			
		70.7	600 x 1200 x2200	11500		12.24			
	Electrical Info		Key Benefits			Applications			
	220V/1Ph/50Hz or 60Hz		- Robust and reliable. - Designed to withstand high temperature - High efficiency with low power consumption			Suitable for small computer rooms to large data centres (up to10~12 kW/Rack) With or without anti static floor			
380~415V/3Ph/50Hz or 60Hz									
 Vertiv™ Liebert® PEX3 (30-100kW) Direct Expansion (DX) Air Cooled Room Cooling Unit	Upflow/Downflow	28.6	930 × 995 × 1975	10100	1	1	Hermetic fixed scroll compressor with R410A refrigerant		
		37.1	1130 × 995 × 1975	12500					
		44.4		13600					
		44.3							
		57.3	1830 × 995 × 1975	20200	2	2			
		61.8	1830 × 995 × 1975	20200					
		74.1	2230 × 995 × 1975	2500					
		76.3		25600					
		88.8		27200					
	Electrical Info		Key Benefits			Applications			
	400V (-15% ~+10%), 3Ph + N ~50Hz		- Precise efficient cooling technology - Economical Precision Solution in Compact Footprint - Wide range of cooling application			- Data Center - Colocation/Hosting - Banking - Financial and Insurance - Telecom			
	 Vertiv™ Liebert® PEX4 (35-120kW) Direct Expansion (DX) Water Cooled / Dual Cool (DX+ Chilled Water(CW) Room Cooling Unit with Inverter Technology	Downflow	36.7	1330 × 995 × 1975	7400	1		1	Scroll compressor driven by inverter technology; R410A refrigerant
			46.2		9500				
51.1			10600						
61.4			12200						
73.0			2430 × 995 × 1975	14800	2	2			
81.6			2430 × 995 × 197	16900					
92.4				1900					
101.8				21200					
112.3				22350					
123.2				2440					
Electrical Info		Key Benefits			Applications				
380V ~ 415V 3P+N; 50Hz/60H		- Premium efficiency through intelligent and advanced controller - Minimised power consumption with inverter technology - Wide range of cooling application			- Data Centre - Colocation/Hosting - Banking - Financial and Insurance - Telecom				

CRAC Unit	Product Specification		Key Benefits	Applications
 Vertiv™ CoolChip CDU 121	Net Sensible Nominal Capacity kBTuh[kW]	101 kW at 7.2°F (4°C) approach temperature difference	• Deploy liquid cooling rapidly and seamlessly - one rack at a time. • Deliver exceptional direct-to-chip cooling capacity with up to 100kW+ to accommodate high density racks • Localised IT equipment cooling loop integration • Improved quality and reliability with redundant pumps, built in filtration, and unit-to unit communication capabilities	• Data Centre / Colocation / Hosting • Education • Government • Healthcare • Retail and Wholesale
	Controls and Monitoring	Color touch screen display, Communication via Modbus RTU (RS485) and TCP/IP		
	Key Components	Redundant pump design, variable-speed pump controls, and integrated filtration		
	Physical Characters			
	Weight	130 lbs/59		
	Height	6.8 in; 4RU/174		
	Width	17.5 in/445		
Depth	34.2 in/868			
 Vertiv™ Liebert® XDU1350 Coolant Distribution Unit	Net Sensible Nominal Capacity kBTuh[kW]	1368 kW at 7.2 F (4 C): Secondary Circuit flow rate at 320 GPM (1200 l/m) at 35.4 psi (2.44 bar) external.	• Deploy liquid cooling with or without access to chilled water on site • Deliver exceptional direct-to-chip and RDHx cooling capacity to accommodate high density racks • High quality and reliability with redundant pumps, built-in filtration, and unit-to-unit communication capabilities	• Data Centre/Colocation/Hosting • Education • Government • Healthcare • Retail and Wholesale
	Controls and Monitoring	Color touch screen display		
	Input Voltage (V/ Phase/Frequency Hz)	480 V ,3PH, 60Hz		
	Key Components	Redundant pump design with variable-speed pump controls.		
	Physical Characters			
	Weight	1431 lbs/1509 kg		
	Height	684 in/2070 mm		
	Width	17.5 in/445 mm		
	Depth	35.4 in/900 mm		





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