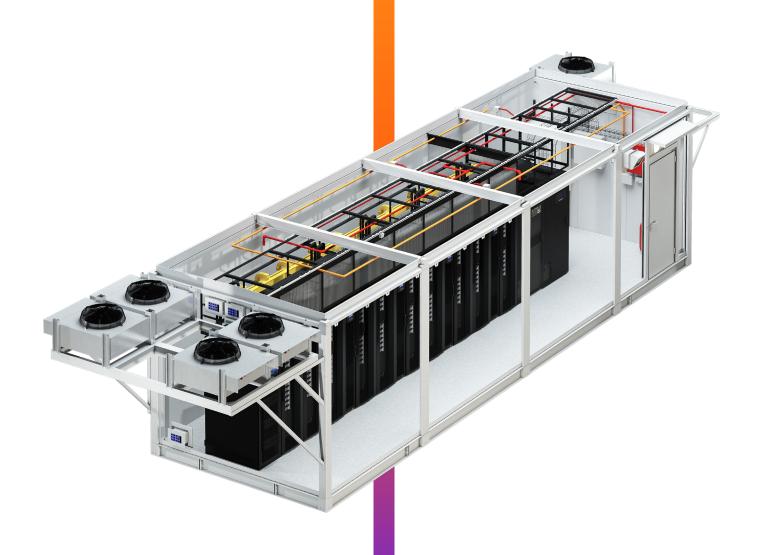


Vertiv[™] SmartMod[™]

Modular Data Center Infrastructure





VertivTM SmartModTM is a flexible platform, optimized for simplified deployment of your critical IT assets.



Front illustration of Vertiv SmartMod

For small room IT deployments up to 10 racks and 100kW or less, Vertiv SmartMod offers a simple way to install capacity in a fraction of the time a typical IT build might take. With integrated, pre-engineered, and pre-fabricated infrastructure, you can rapidly achieve your objectives. And you don't have to blow the budget, or overbuild based on uncertain future needs – with right-sized systems designed to work together and optimized for constructability and speed to startup, you can build just what you need today, better aligning your capital plans to your business challenges.

SmartMod leverages core Vertiv Critical Power, Thermal Management, and Monitoring & Control technologies.

SmartMod incorporates:

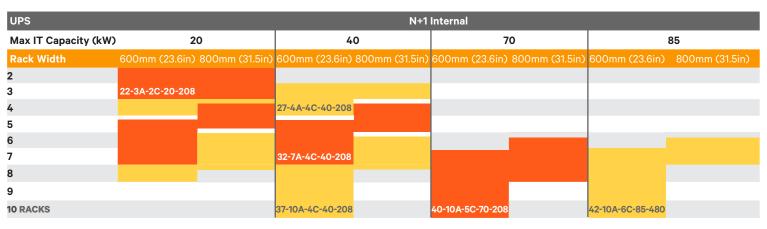
 Modular and scalable Liebert® EXM UPS power protection

- Close-coupled in-row Liebert CRV thermal management units with intelligent iCOM controls
- Flexible Vertiv VR racks
- Vertiv rack PDUs
- Thermal containment to isolate hot aisle and cold aisle airflows for optimum thermal performance
- Automatic Transfer Switch (ATS) to reliably select normal or emergency power sources
- Clean agent fire suppression with optional VESDA early smoke detection
- Overhead infrastructure, including piping, electrical distribution, and fiber ducts

All subsystems are factory installed into a secure, weatherproof and transportable enclosure – simplifying and drastically shortening on site time required to install and startup, and reducing the potential for risk, quality, or schedule delays.

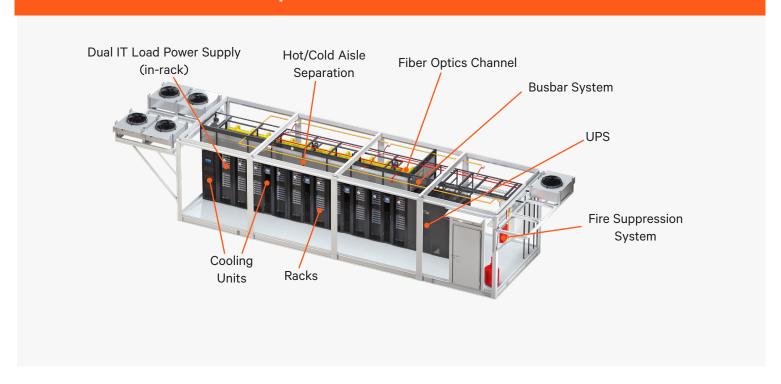
Configuration options are available to provide desired redundancy and battery runtime. In addition, when deploying multiple units or at multiple locations, having a common look and feel, layout, and equipment kit simplifies maintenance and operations activities. And Vertiv backs it all up with the service and support network you have come to expect from us.

Vertiv SmartMod Selection Grid



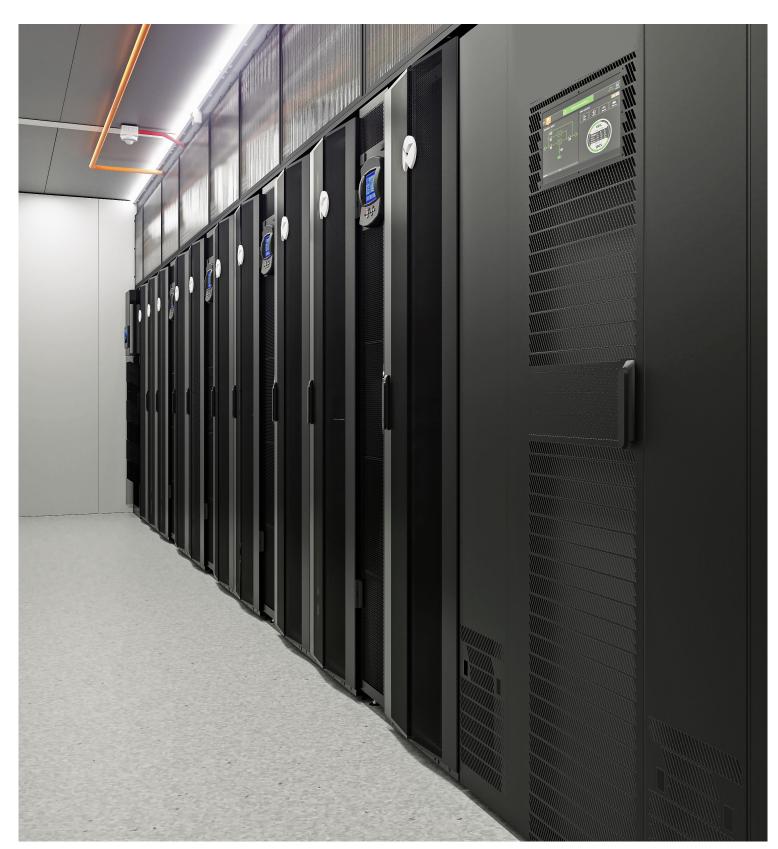
- · Cells that contain exact reference design names reflect an optimized Solution for those parameters
- · The reference design may still be valid for design parameters within the colored extended range
- Minor configuration changes are possible (varying rack counts/dimensions, longer battery runtimes, etc.) check with your Solutions Architects for details and support

Component Overview of SmartMod



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Interior view of Vertiv SmartMod

SmartMod Technical Specifications

REFERENCE DESIGN	22-3A-2C-20-208	27-4A-4C-40-208	32-7A-4C-40-208	37-10A-4C-40-208	40-10A-5C-70-208	42-10A-6C-85-480	
Enclosure External Dimensions	22-3A-2C-20-206	27-4A-4C-40-208	32-7A-4C-40-208	37-10A-4C-40-208	40-10A-5C-70-208	42-10A-6C-85-480	
	6426mm (21.1 ft)	9010mm (26.2 ft)	0E0/mm (21 E ft)	11178mm (36.7 ft)	11970mm (39.3 ft)	12762mm (/1 0 ft)	
Enclosure Length		8010mm (26.3 ft)	9594mm (31.5 ft)			12762mm (41.9 ft)	
Overall Length	7810mm (25.6 ft)	10778mm (35.3 ft)	12344mm (40.5 ft)	13944mm (45.8 ft)	16122mm (52.9 ft)	16122mm (52.9 ft)	
Enclosure Width	3555mm (11.7 ft)	3555mm (11.7 ft)	3555mm (11.7 ft)	3555mm (11.7 ft)	3555mm (11.7 ft)	3555mm (11.7 ft)	
Enclosure Height	3252mm (10.7 ft)	3252mm (10.7 ft)	3252mm (10.7 ft)	3252mm (10.7 ft)	3252mm (10.7 ft)	3252mm (10.7 ft)	
Weight	Configuration dependent						
Input AC Parameters							
Region	North America						
Voltage/Frequency		208V/3/60Hz (4W+G) 480V/3/60Hz (4W+G					
IT Racks							
Rack Height	42U (2000mm, 6.6 ft)						
Rack Depth		1100mm (3.6 ft)					
Max QTY of 600mm (23.6 in) OR Max QTY of 800mm (31.5 in) racks	3/2	4/3	7/5	10/7	10/8	10/7	
Max System IT Load (@ N+1)	20kW		40kW	1	70kW	85kW	
Electrical							
Bypass Distribution Cabinet				1			
UPS Cabinet (EXM Type)	1						
UPS Module Redundancy	N+1						
UPS Battery Cabinet	n/a			1			
UPS Nameplate Rating (modules)	20kVA (20kVA + 20kVA)	40kVA (40kVA + 20kVA)	40kVA (40kVA + 20kVA)	40kVA (40kVA + 20kVA)	80kVA (80kVA + 20kVA)	100kVA (100kVA + 20kVA	
Battery Backup Time	Configuration dependent (minimum 5min)						
Busbar System	One busbar with Tapoff with two subfeeds (A&B) for each rack						
Rack PDU	2 per rack						
Rack PDU Capacity (max)	30A per phase @ 208V/3/60Hz						
Rack PDU Type	Basic, monitored, or managed						
Mechanical							
Air Conditioning Type	In-row, direct expansion						
Air Conditioning Redundancy		N+1					
Air Conditioning Units	2	4		5	6		
Cooling Capacity for IT Load (35°C @ N+1)	20kW		40kW		70kW	85kW	
Exterior Ambient Operating Range	-35°C to +45°C						
Fire Detection and Suppression							
Very Early Smoke Detection System	Aspirating detection unit optional						
Fire Detection System	Optical						
Fire Suppression Agent	HFC-227EA (FM-200)						
Cable Trays							
LAN Cable Tray	200mm (7.9 in) wide mesh						
Fiber Optic Tray	4" x 4"						
Spill-over Exit	Single per IT rack						
Lighting							
Lighting Element				LED			
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