

Vertiv™ Integrated Rack Solution

Reference Design #40

Essential Commercial and Office (3) 42U Rack 20kVA Capacity

Solution Requirements

Physical Protection

- Safeguard network gear from environmental threats and unauthorized access.
- Prevent dust, debris, and moisture from damaging equipment.

Power Protection

- Prevent business interruption caused by power loss or power fluctuations with battery backup technology.
- Achieve maximum uptime with redundant gear protecting critical application during an unexpected equipment failure.

On-Site Management

- Simplify deployment and support future growth with infrastructure designed for total compatibility and scalability.
- Recover business critical floor space with IT infrastructure designed with tight spaces in mind.
- Streamline deployment and get critical applications up and running faster with on-site services and support.

Remote Management

- Maintain peace of mind one or more remote sites are up and running with real-time notifications.
- Save time by remotely accessing and rebooting unresponsive network equipment without an on-site visit.

Site-Maintenance

- Ensure continuity of business with remote access and management of critical systems.
- Maximize your investment with on-site equipment maintenance and extended warranty protection.

Thermal Management

- Cool critical IT gear in high density or high temperature environments.

Form Factor: Row

Objective: Support critical IT applications in a converted space not originally designed for computing.

Recommended Environment

Indoor unsecure environment with limited climate control providing minimal air conditioning for human comfort where temperature, humidity, and air quality control challenges put IT equipment at risk of damage from uncontrolled heat, dust, and moisture.

- Converted Closet
- Converted Room
- Warehouse
- Retail Stock Room
- Distribution Center
- Factory

Integrated Solution Summary

Capacity	20kVA/20kW
Rack(s)	Qty. 3 - 42U X 1100 X 800 (HXW XD)
Power Protection	Online Double Conversion
Redundancy	N+1 backup power, 2N rack power distribution, and N cooling
Power Distribution	48A Single Phase, 240V Max; 11.0kW 24A 3 Phase DELTA, 240V Max; 8.6kW 16A Three Phase WYE, 240/415V Max
Cooling	Included - Direct Expansion
Containment	Blanking Panels
Monitoring	Included
Services	Included
Warranty	3 years
Software	Optional Upgrade

Integrated Solution Includes

Qty	Product Summary	SKU	Description
3	Rack	VR3150	Vertiv™ VR Rack supports a wide variety of equipment, including servers, storage, switches, routers, PDUs, UPSs, console port servers and KVM switches. Dimensions 42U x 800mm x 1100mm (HxWxD).
5	Cable Management	VRA8571, VRA8561, VRA8571	The Vertiv VR Cable Trough System is a comprehensive line-up of accessories for the concealment and organization of power and communications cables. The NEMA standard rack cable tray system is available for 300 mm, 600 mm, and 800 mm wide, and includes enclosures, connectors, barriers, and grounding equipment.
1	UPS	ITA2201B01000A00	With true online double conversion technology, unity power factor and extremely compact rack / tower design, the Liebert ITA2 is the ideal power protection for computer rooms, storage and network devices.
6	Rack PDU	UU30009L	Vertiv™ Geist™ rPDU, Switched Outlet Level Monitoring EC, Variable Power Configuration, Vertical, (30) Locking IEC C13, (6) Locking IEC C19, Universal Inlet.
1	Row Based Air Cooling	841038, 815525, 841038	CR025RA 300mm Wide CRV Unit with outdoor condensing unit and lee-temp kit
1	Warranty and Service	PS-ACP-ST8X5-ITA20, ACP-WP1-8WH-8R8WH-12	Startup ITA2 10/15/20 kVA (8x5), Preferred Warranty 1YR-PM8x5-8HR RESP8x5 ITA2 10/15/20kVA
2	IT Management	AV3216	The Vertiv™ Avocent® AutoView™ 3000 (AV3000) KVM over IP Switches provide local and remote management and control of up to 16 servers from a single console.
1	Warranty and Service	PS-ACP-ST8X5-ITA20, ACP-WP1-8WH-8R8WH-12	Startup ITA2 10/15/20 kVA (8x5), Preferred Warranty 1YR-PM8x5-8HR RESP8x5 ITA2 10/15/20kVA

*Additional accessories and components are required and included in the integrated solution. Contact a Vertiv Partner for the complete bill of materials, to receive pricing, and to purchase.

Recommended Upgrades

Qty	Product Summary	Model #:	Description
1	Row Based Air Cooling	841038, 815525, 841038	Redundant CR025RA 300mm Wide CRV Unit with outdoor condensing unit and lee-temp kit

Explore all **Commercial and Office** form factors and power configurations available, **Endpoint, Rack, and Row** by visiting the **Solution Builder** on [Vertiv.com](https://www.vertiv.com) or by contacting a Vertiv Sales Representative.