

Vertiv™ Integrated Rack Solution

Reference Design #45

Premier Conditioned and Controlled (6) 42U Rack 36kVA 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 data center environments designed specifically for IT equipment.

Recommended Environment

Climate-controlled physically secure environment with power, air conditioning and airflow management in place providing temperature and humidity optimization specifically designed for IT equipment.

- Enterprise Data Center
- Colocation Data Center
- Managed Hosting Facility
- Cloud Data Center

Integrated Solution Summary

Capacity	36kVA/36kW
Rack(s)	Qty. 6 - 42U X 800 X 1200 (HxWxD)
Power Protection	Double Conversion Online
Redundancy	N 1 backup power, 2N rack power distribution, and N 1 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
Containment	Open
Monitoring	Included
Services	Included
Warranty	3 years
Software	Included

Integrated Solution Includes

Qty	Product Summary	SKU	Description
6	Rack	VR3350	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 1200mm (HxWxD).
9	Cable Management	VRA3004, VRA8561, VRA8571, VRA8581	The Vertiv VR Cable Management includes 1U depth adjustable support rails and a cable trough.
6	UPS	APM0601CS100000, APMBATMODF10	Vertiv Liebert APM UPS offers excellent efficiency, up to 94% in double conversion and up to 98% in Active Eco-Mode. Include 1 60 kW capacity UPS and 5 battery modules.
12	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.
3	Row Based Air Cooling	841038, 815525, 45637	CR025RA 300mm Wide CRV Unit with outdoor condensing unit and Lee-temp kit
2	IT Management	MPU2032DAC-001, ACS8032-EU-DAC-400	The Avocent MergePoint Unity MPU2032DAC-001 is a 32-port, 2 digital KVM path, with dual AC power supply. The MergePoint Unity switch includes both KVM over IP and Serial Console Management technology in a single appliance. This combination provides IT administrators a complete and secure, remote management solution to access and control servers, networking equipment and other devices found in data centers and branch offices.
1	Software	DSV4.5-BASE, DSV4.5-500DEV, 1YRSLV-500DEV	DSView delivers secured web-browser enabled sessions of on-network infrastructure controls. As an IT integrated solution, DSView delivers secured web-browser enabled sessions to Virtual Machines
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
3	Power Distribution	PDB2U3001, PDB2U3002, PDB2U3003	Row power distribution box with beakers and 16' whip to UPDU; WYE input power connection

*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	Redundant CR025RA 300mm Wide CRV Unit with outdoor condensing unit and lee-temp kit
1	Software	ENVA-SERVER, ENVA-DEV-500, ENVA-STUP-500, ENVA-SERVER-SA, ENVA-SA-500	Vertiv™ Environet™ Alert provides industry companies with critical facility monitoring software that is affordable and easy to use. This solution delivers superior monitoring, and alerting.

Explore all **Commercial and Office** form factors and power configurations available, **Endpoint, Rack, and Row** by visiting the **Solution Builder** on **Vertiv.com** or by contacting a **Vertiv Sales Representative**.