



Product brochure

Vertiv™ Prefabricated Power Solutions

Delivering critical power - fast, reliable, and scalable

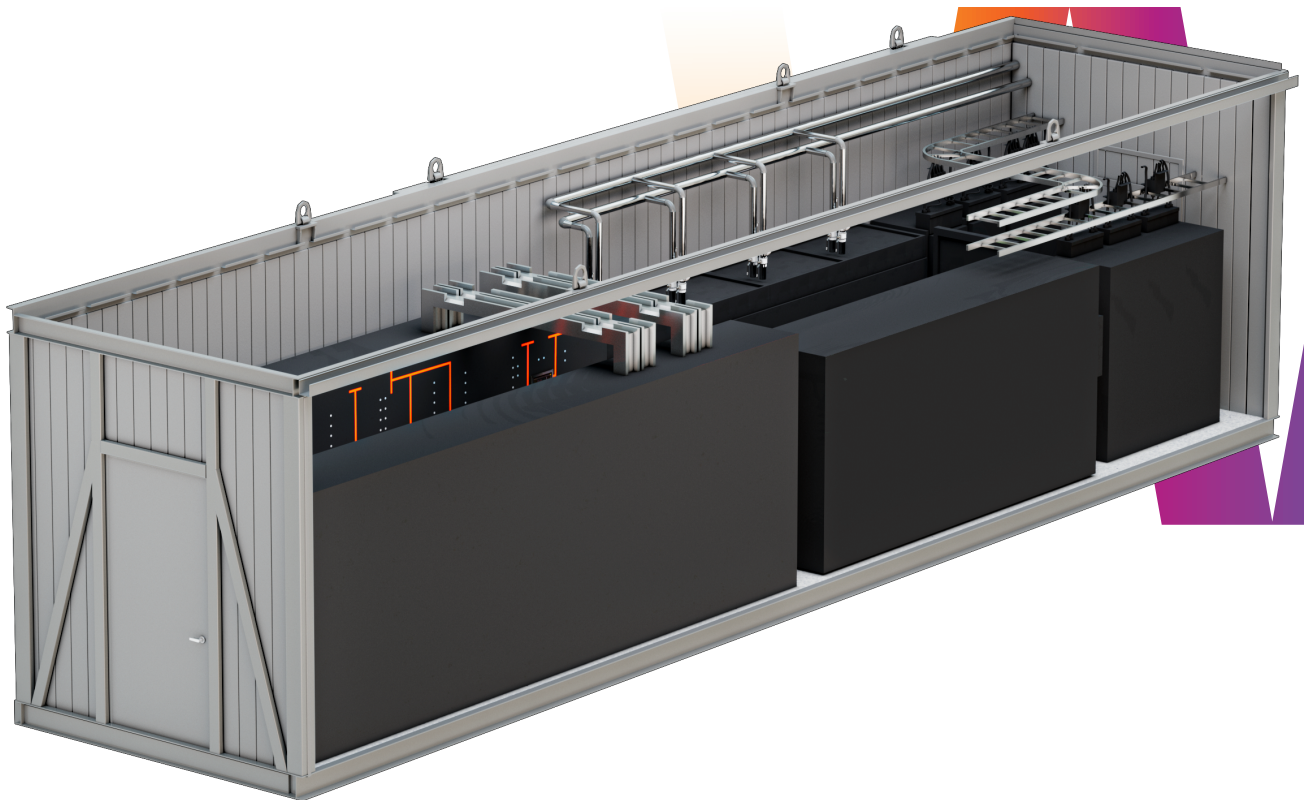




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About Vertiv

Vertiv (NYSE: VRT) brings together hardware, software, analytics and ongoing services to enable its customers' vital applications to run continuously, perform optimally and grow with their business needs. Vertiv solves the most important challenges facing today's data centers, communication networks and commercial and industrial facilities with a portfolio of power, cooling and IT infrastructure solutions and services that extends from the cloud to the edge of the network.

Headquartered in Columbus, Ohio, USA, Vertiv does business in more than 130 countries. For more information, and for the latest news and content from Vertiv, visit [Vertiv.com](https://www.vertiv.com).

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Vertiv™ Infrastructure Solutions-at-a-glance

Vertiv™ Infrastructure Solutions offers you comprehensive support for designing data centers, utilizing the entire Vertiv™ product lineup to deliver seamlessly integrated solutions. By combining our extensive portfolio and expertise, we create prefabricated and modular solutions tailored both for AI and traditional data centers. With a platform-based approach, we tackle the challenges of selecting individual products and managing on-site integration, enabling you to build an efficient, resilient, and future-ready data center infrastructure.



Global presence with localized volume manufacturing facilities



Simplified and Scalable assembly for straightforward on-site installation



Full owners of the process from design to onsite installation



High quality Factory Integration with schedule and cost certainty



Energy Efficient Design allows for lower site PUE and reduced environmental impact while controlling costs

Vertiv Infrastructure Solutions bring over two decades of experience in deploying prefabricated and modular solutions across the world to different industries and customer profiles.

| | |
|--|---|
| Accelerating Deployment Cycles | <ul style="list-style-type: none">Repeatable factory-integration to reduce deployment up to 50% and 50% less on-site work (including commissioning)Global supply-chain and service delivery footprint |
| Maximizing Building Blocks & Space Optimization | <ul style="list-style-type: none">Modular and hybrid solutions in multi-MW sizesModule design-practice unlocks up to 30% space |
| Reduce Field Work and Improve Build Quality | <ul style="list-style-type: none">Productizing non-repeatable field work in the factory, improving build-quality and customer's total cost of ownership up to 25% |

Scan QR code and visit **Vertiv Infrastructure Solution** page.



Executive Summary

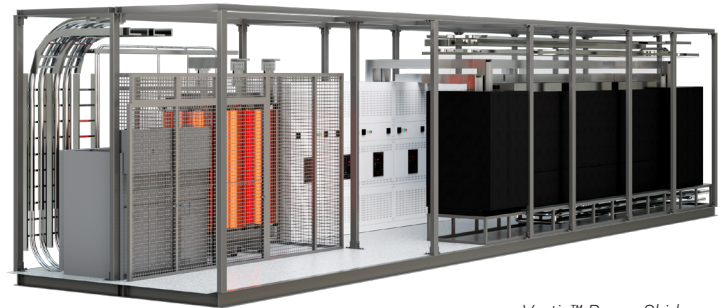
Data center programs are under pressure to deliver capacity sooner, with fewer unknowns, and with predictable outcomes. Traditional stick-built methods struggle to meet these demands due to multi-vendor coordination, on-site integration risk, and elongated commissioning.

Vertiv™ Power Infrastructure Solutions provide a proven, productized approach to critical power. Our portfolio of prefabricated Vertiv™ Power Modules and Vertiv™ Power Skids scales up to 2,500 kW per unit, offering the flexibility of enclosed modules or open skid configurations. By owning the design, manufacturing, delivery, installation, and commissioning, Vertiv reduces project risk, compresses schedules, and simplifies lifecycle operations.

Why Vertiv - Proven, Productized, Single-Source

Proven Quality and Risk Reduction

- Critical component factory testing
- Full functional system testing in-factory
- Reduction of field work and on-site variables
- On-site commissioning and support up to Level 5



Vertiv™ Power Skid

Single-Source Advantage (Productized Delivery)

- **End-to-end accountability** - Vertiv owns the design, manufacturing, delivery, installation, and commissioning. One partner, one specification, one warranty
- **Simplified procurement & project management** - Fewer contracts and interfaces to manage with clear change control and schedule ownership.
- **Optimized, factory-integrated system** - Skids and modules are pre-engineered, assembled, and functionally tested as a complete system to enable interoperability.
- **Faster deployment** - Plug-and-play delivery enables parallel construction and reduces on-site labour and commissioning time.
- **Engineering & design expertise** - Productized designs reflect deep knowledge of electrical, thermal, controls, and safety interactions; configurable without bespoke risk.
- **Lifecycle support** - Unified service model, aligned spares, and a single helpdesk simplify operations and improve MTTR.
- **Customer resource savings** - Redeploy internal engineering and PM resources to higher-value work rather than vendor coordination.
- **Innovation** - Continuous Vertiv R&D in efficiency, monitoring, and modularity keeps platforms current.

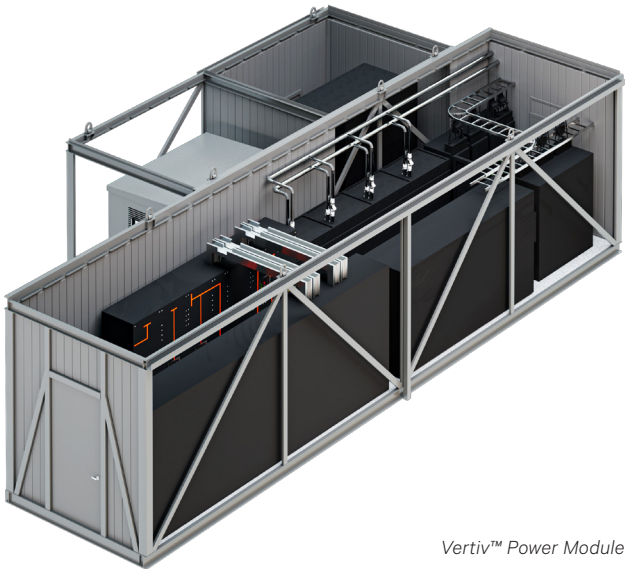


Scalable Investment Model

- Standardized, repeatable manufacturing
- Predictable deployment timelines
- Invest-as-you-grow flexibility
- Simple capacity expansion with standard building blocks

Advantage vs. Stick-Built

- Up to 50% reduction in deployment time (case-dependent)
- Up to 30% space savings through optimised layout
- Rapid installation and commissioning
- Simplified on-site integration with single responsibility



Vertiv™ Power Module

Benefits That Drive Cost Efficiency

Vertiv’s integrated approach doesn’t just simplify power infrastructure - it delivers measurable operational and financial advantages. Each benefit below explains how we achieve cost savings through design, deployment, and lifecycle strategies.



Benefit



Description



Cost/Risk reduction impact

| | | |
|-----------------------------------|---|--|
| Proven Quality and Risk Reduction | Factory testing and full system validation reduce on-site troubleshooting and rework | Lowers labor costs and avoids delays |
| Single-Source Advantage | One partner for design, manufacturing, and commissioning eliminates multi-vendor coordination | Reduces administrative overhead and hidden integration costs |
| Scalable Investment Model | Standardized modules allow phased deployment | Avoids upfront overbuild and stranded capital |
| Advantage vs. Stick-Built | Prefabricated modules compress timelines | Enables earlier go-live and faster revenue generation |
| Procurement & Vendor Management | Fewer contracts and simplified logistics | Cuts procurement complexity and project management expenses |
| Installation & Commissioning | Plug-and-play delivery minimizes on-site labor and accelerates commissioning | Reduces installation costs significantly |
| Risk Mitigation | Unified responsibility prevents compatibility issues and warranty gaps | Avoids costly delays and penalties |
| Lifecycle & Maintenance | Integrated service model and aligned spares | Reduces downtime and maintenance overhead |
| Time-to-Revenue | Faster deployment means earlier revenue streams | Improves ROI and financial performance |

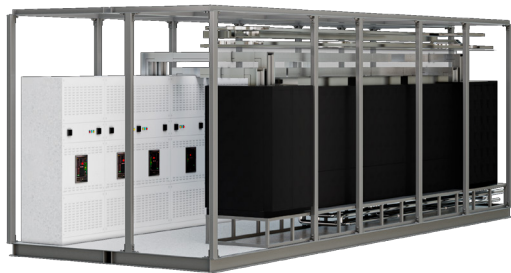
What Are Vertiv™ Power Modules and Vertiv™ Power Skids?

Vertiv™ Power Modules and Vertiv™ Power Skids are pre-integrated critical power building blocks engineered for reliability, speed, and scalability. Choose an open-frame skid for indoor plant rooms or a weather-rated enclosure for outdoor deployment.

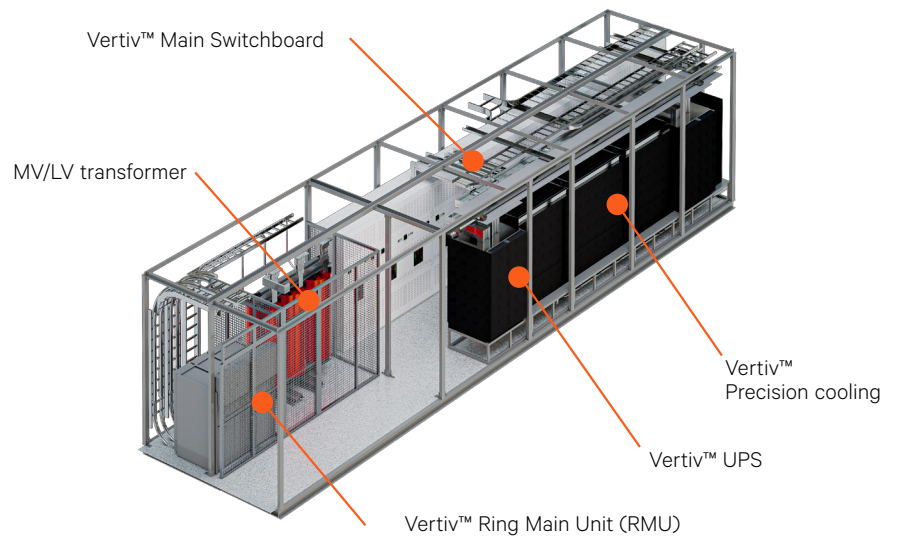
Power Skid

Space-Optimised, Open-Frame (Indoor)

- MV/LV transformer (optional)
- Vertiv™ Ring Main Unit (RMU) (optional)
- Vertiv™ Main and distribution switchgear
- Vertiv™ Uninterruptible Power Supply (UPS)
- Battery energy storage (VRLA or Li-ion)



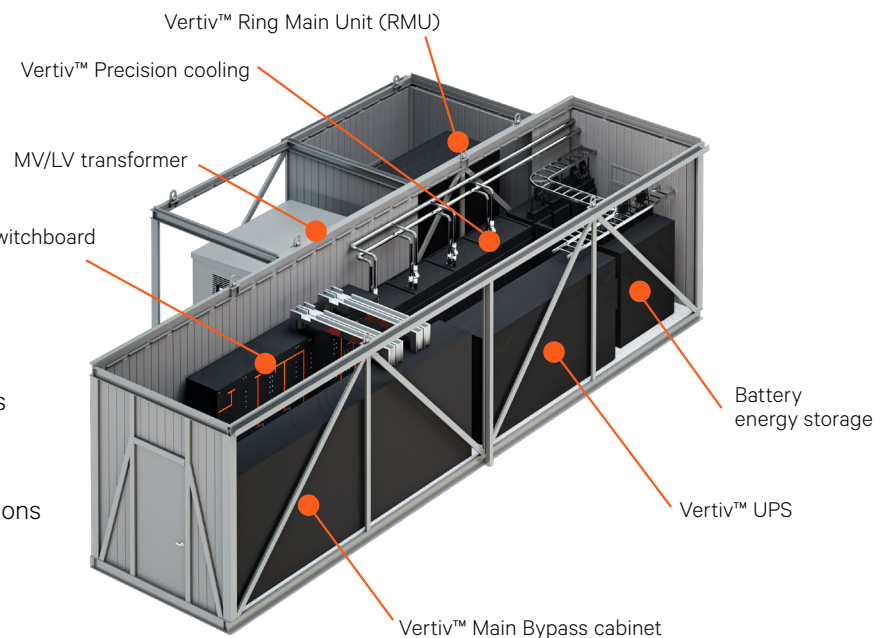
Vertiv™ LV Power Skid



Power Module

Weather-Protected Enclosure (Outdoor/Indoor)

- MV/LV transformer (optional)
- Vertiv™ Ring Main Unit (RMU) (optional)
- Vertiv™ Main and distribution switchgear
- Vertiv™ Uninterruptible Power Supply (UPS) systems
- Battery energy storage (VRLA or Li-ion)
- Vertiv™ Precision cooling units with redundancy options





Vertiv™ Power Modules and Vertiv™ Power Skids include comprehensive support systems, delivering complete, ready-to-deploy solutions:



Fire Safety

- Advanced early-warning detection
- Clean-agent suppression
- Factory-installed and tested components



Environmental & Safety

- LED lighting with emergency back-up
- Environmental monitoring sensors
- Security and access control (optional)
- Temperature and humidity control



Power & Cable Management

- Integrated cable pathways or busbar
- Pre-installed power and control cabling
- Optimized routing for maintenance access



Monitoring & Control

- Comprehensive power monitoring
- Remote access capabilities
- Integration with facility/factory management systems

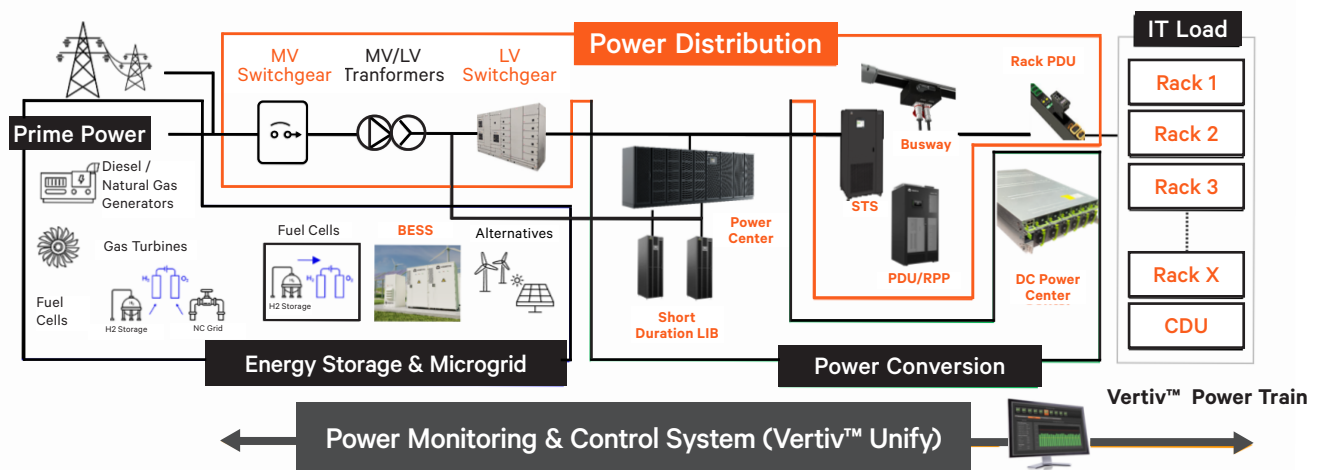
Vertiv™ Power Infrastructure — Portfolio Overview

Vertiv Power Infrastructure — Integrated Expertise and Optimized Design

Vertiv combines decades of critical power expertise with modern modular design principles to deliver solutions that are engineered as complete products, not collections of parts. Unlike multi-vendor approaches, Vertiv owns and manufactures most of the core technologies that make up a Vertiv Power Module or Vertiv Power Skid - including Vertiv™ UPS systems (up to 2.5 MW), advanced battery solutions, Vertiv™ switchgear, and Vertiv™ Liebert® precision thermal management.

Because these components are designed and tested to work together, customers benefit from:

- **Optimized system performance:** Electrical, thermal, and control systems are integrated for efficiency and reliability.
- **Reduced engineering complexity:** Pre-engineered building blocks eliminate compatibility issues and bespoke design costs.
- **Unified responsibility:** One specification, one warranty, and one service model simplify project execution and lifecycle support.



Future-Ready and Flexible

Vertiv Power Modules and Vertiv Power Skids can be provisioned to interface with microgrid assets such as solar PV, battery energy storage systems (BESS), gas engines/turbines, and fuel cells. Standardized interfaces and flexible controls enable phased adoption of alternative and distributed energy resources while maintaining system reliability and unified monitoring. Vertiv Power Module also offers the flexibility to house emerging power conversion innovations, from next-generation UPS platforms to 800 VDC systems and beyond.

Data Center Topology Integration Any Topology, Any Requirement

Supported standard configurations:

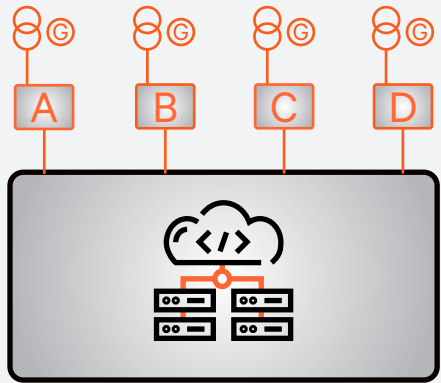
- N - Basic design with no redundancy
- N+1 - One extra component for single fault tolerance.
- 2N - Two fully independent systems for maximum resilience.

Advanced architectures:

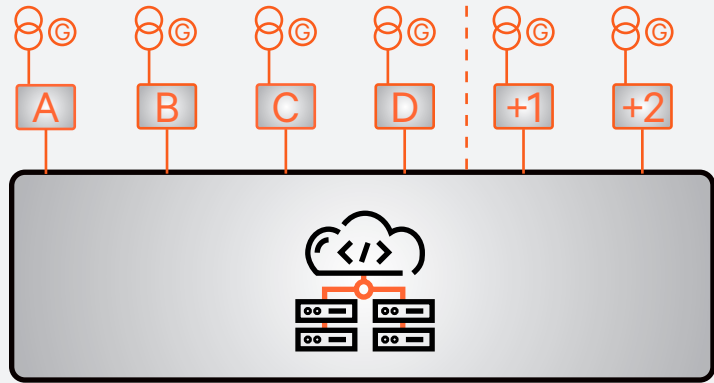
- Distributed Redundant (4N/3, 5N/4)
- Block Redundant (N+1, N+2)
- Ring Bus

EXAMPLE TOPOLOGIES

Distributed redundant



Block redundant

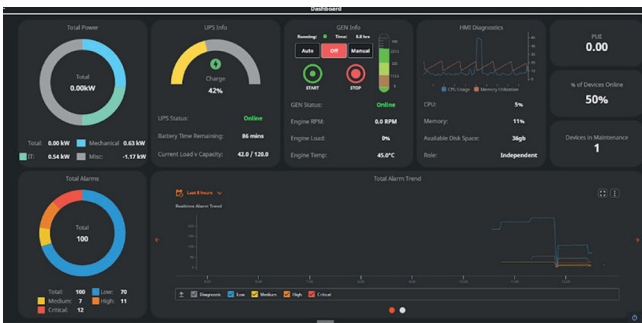


Data center example topologies

User Interface and Monitoring

Vertiv™ PowerNexus featuring Vertiv™ Unify Onboard provides advanced monitoring, control, and automation across power, thermal, and building systems through a single interface. It offers plug-and-play deployment, open industrial protocols for third-party integration, and real-time insights to optimize uptime and performance. Vertiv Unify scales from on-site to hybrid and cloud-hosted deployments.

Where Vertiv Unify is not deployed, systems integrate with third-party platforms using standard industrial interfaces, maintaining a vendor-agnostic operations model..



The platform is customizable with three scalable options to suit various operational needs.

| | Monitoring | Control | Redundancy |
|-----------|------------|---------|------------|
| Essential | ✓ | | |
| Advanced | ✓ | ✓ | |
| Premium | ✓ | ✓ | ✓ |



Rely on Vertiv™ Services for superior critical infrastructure performance

Global presence & local resources



With the broadest, most comprehensive service presence in the industry and more than 3,500 engineers dedicated to servicing the entire world, Vertiv™ products enable that your business is always protected, and that service is available whenever needed 24 hours a day.

Project services



From project planning and design, through to equipment procurement, installation, and commissioning, our project team offers comprehensive capabilities, enabling speed of deployment and execution according to pre-defined and repeatable procedures.

Expertise & training



All service engineers are regularly certified according to country-specific regulations as well as wider international regulations and standards.

Vertiv service engineers are trained, experienced professionals who undergo an average of one week of intensive training each quarter, totaling one month of full-time training per year.

Training includes both technology and safety, to enable competent and safe field operations, reinforced by established procedures to follow and central technical support in case of need.

Premium response



With Vertiv you can count on an extensive supply of critical parts plus crash-kits ready for deployment, and on service engineers that can respond to requests in record time.

To do so, they rely on a solid knowledge-base, and established escalation procedures valid across the regions. In addition, they also benefit from advanced incident management, and widespread presence of Service Centers all enabling them to deliver premium restoration capabilities.

Supporting your business around the globe



Regular service of critical equipment supports maximum uptime and reduces total cost of ownership. A service program enables timely and proactive maintenance for avoiding unexpected, costly equipment downtime and enables optimal equipment operation. Vertiv™ service programs cover all technologies and can be tailored to suit individual business needs.



Vertiv deep infrastructure expertise is amplified by field data and analytics, enabling data-based services such as Advanced Incident Management and Condition Based Maintenance.

These services complement our portfolio providing additional insight into operating trends allowing informed decision and minimizing operational.

Vertiv™ Power Module design specifications

Design Specifications

Vertiv™ Power Module

Vertiv™ Power Skid

General

| | | |
|--|---------------------------------|-------------------------------|
| Region | EMEA, NAM, APAC | |
| Voltage | 380, 400, 415 or 480 V | |
| Operating internal temperature | Up to 40°C/104°F @ 100% load | |
| Battery recommended temperature | 25°C/77°F | |
| Relative humidity @ 20 °C (non condensing) | Up to 95% | |
| Operating ambient temperature | From -20°C to 55°C | |
| Integration | Module Pre-Assembled in-Factory | Skid Pre-Assembled in-Factory |

Electrical

Switchboard

| | | |
|----------------------|----------------------------------|--|
| Inputs | 2 inputs (grid and/or generator) | |
| Input breaker | Up to 5000A | |
| Short circuit rating | 100 kAIC | |

UPS

| | | |
|------------------------|---|--|
| UPS Rating | Up to 2500 kVA | |
| Available UPS products | Trinergy, UPS9000, EXL S1, APM2 | |
| UPS configurations | Single, Modular, Parallel | |
| UPS modes | Online (VFI), Dynamic Online (VI), ECO Mode (VFD) | |

Medium Voltage

| | | |
|----------------|--|--|
| Transformer | Optional: Dry Type Transformer | |
| Ring Main Unit | Optional: Air or Gas Insulated MV switchgear | |

Monitoring

| | | |
|------------|---|--|
| Essential | Monitoring | |
| Electrical | Monitoring and Control | |
| Premium | Monitoring, Control, Redundancy and Service Cloud Integration | |

Structural / Mechanical

Dimensions

| | | |
|------------------------|----------------------------|----------------------------|
| Length (NAM/EMEA/APAC) | Up to 60' / 18m / 13.7 m | Up to 60' / 18m / 13.7 m |
| Width (NAM/EMEA/APAC) | Up to 13'4" / 3.8m / 3.5 m | Up to 13'4" / 3.8m / 3.5 m |
| Height (NAM/EMEA/APAC) | Up to 13' / 4 m / 3.5 m | Up to 13' / 4 m / 3.5 m |

Additional Features

| | | |
|------------------------------|---|---|
| Cooling | Chilled Water or Direct Expansion Cooling | Optional; Chilled Water or Direct Expansion Cooling |
| Battery | Li-ion, Ni-Zn or VRLA | Optional; Li-ion, Ni-Zn or VRLA |
| Fire Detection System | Optical detection | Optional; Optical detection |
| Fire Suppression System | FK 5-1-12 or other on request | Optional; FK 5-1-12 or other on request |
| Early Smoke Detection System | Optional | |
| Security System | Optional; Video Surveillance, Access Control, Intrusion Detection | |
| Additional Rooms | Optional; Battery room, MV room | |

