

Vertiv™ PowerNexus is a new step in powering data centers and other critical applications. Close-coupled UPS and Switchgear systems optimize space, installation and commissioning time.

The compact Vertiv™ PowerNexus power system combines the robust power of Vertiv™ Trinergy™ and Vertiv™ PowerBoard Switchgear integrated in one single block connected by internal busbars. Such integration reduces equipment footprint, cabling materials, and installation labor costs.

The compact Vertiv™ PowerNexus solution enables data center industries to expedite IT deployment; specifically enabling hyperscale and colocation clients deploying power modules and power skids.

Vertiv™ PowerNexus provides a dedicated solution to datacenter owners most important priorities: Simplicity of installation, and space optimization for income generating IT equipment.

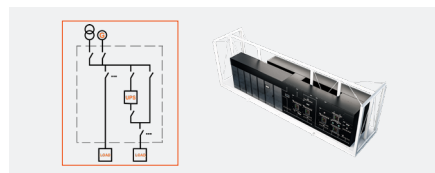
Vertiv™ PowerNexus can be pre-commissioned in the factory and delivered to the work-site fully operational and pre-tested. Vertiv™ Unify is a standard feature providing active controls and monitoring to provide reliable power quality for maximum uptime.

There are three possible options:

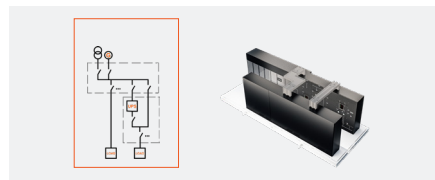
- 1. Work-site integration** - Products designed for interconnection electrically, mechanically and digitally connected.
- 2. Skid integration** - Products optimally arranged on a skid electrically, mechanically and digitally connected.
- 3. Enclosure integration** - Products pre-fabricated in an enclosure, electrically, mechanically and digitally connected.

In addition, there are two possible arrangements:

Back-to-Back: No external connections between UPS and Switchgear required. Suitable for work-site and skid integration deployments.



Front-to-Front: Optimized Switchgear and UPS connections by busbar. Suitable for any deployment method (Work-Site, Skid, Enclosure)



Intelligent onboard monitoring & control

Vertiv™ Unify is an embedded intelligence solution that delivers advanced monitoring, control, and automation directly to Vertiv's PowerNexus. Pre-installed and pre-configured as standard, it comes in three scalable options—Essential, Advanced, or Premium—allowing users to select the right level of functionality for their needs.

With plug-and-play integration into Vertiv™ Unify at the site level, it creates a seamless, scalable data center management system (DCMS) for unified operations across equipment, site, and enterprise layers.

For sites where Vertiv™ Unify is not deployed, Vertiv™ Unify enable interoperability by integrating with third-party systems through standard industrial interfaces, providing a vendor-agnostic approach to data center management.

With standardized interfaces, intuitive controls, and flexible deployment options, Vertiv™ Unify simplifies operations, enhances efficiency, and accelerates the path to a fully unified digital infrastructure.

The platform is customizable with three scalable options:

	Essential	Advance	Premium
Monitoring	X	X	X
Control		X	X
Redundancy			X

Key Features of Vertiv™ PowerNexus

- UPS power range: 1500, 2000, 2500 kVA
- Switchgear with up to 5000A total load
- Dual-Power inputs for utility power redundancy
- Direct and protected (UPS) outputs
- Vertiv™ Unify comes standard onboard every PowerNexus
- Robust, modular, and highly efficient UPS
- Safe and reliable power distribution technology
- Easy configurable system
- No long-run cables needed
- Predictive maintenance and distributed energy resources ready

Technical Specifications

Vertiv™ PowerNexus			
Rating [kVA]	1500	2000	2500
Inputs	2 (grid and generator)		
Operating temperature	Up to 35°C @ 100% load		
Relative humidity @ 20 °C (non condensing)	Up to 95%		
Frame color (RAL scale)	RAL7021		
IP protection	IP20 for UPS, IP31 for SWB		
Integration	Assembly on site or preassembled on skid or inclosure in factory		
Grounding	TN-C or TN-S		
Certification	CE and UL	CE and UL	UL
Nominal voltage [V]	400/480		
Input breaker @480V [A]	2500	3000	4000
Input breaker @400 [A]	3000	4000	5000
Short circuit rating	100 kAIC		
UPS			
Core rating [kVA]	500		
Inverter Overload Capacity	110% continuous, 125% for 10 mins, 150% for 1 min		
Input factor	≥0.99		
UPS modes	Online (VFI), Dynamic Online (VI), ECO Mode (VFD)		
UPS efficiency @ VFI mode	≥97%		
UPS efficiency @ VFD mode	≥99%		
Frequency range [Hz]	40 - 70		
UPS serviceability	Complete UPS isolation by using external bypass		
Battery voltage range [V]	397 - 700		

Vertiv™ Trinergy™ UPS is the next-gen UPS built on a history of exceeding Tier IV data center power chain availability and over 40 years of technical innovation and proven global deployment successes.

Vertiv™ Trinergy™ Overview and Benefits At a Glance

Elevating performance, modularity, resilience and efficiency for your power needs



Most robust UPS in the market
for unparalleled reliability and resilience



Best-in-class modular UPS for maximum flexibility from room to pre-fabricated deployment



Skid-mount and enclosure power solutions for an easy deployment



Supports High-Density and Artificial Intelligence Applications providing increased power in a single power block compared to existing market products



Ready to integrate alternative energy and back up power sources, including lithium-ion and nickel-zinc



Rich Digital Experience Service empowered by data across entire life-cycle with Vertiv™ Life™ Advanced Incident Management and Condition Based Maintenance



The ultimate optimized high-power solution for global standards and easy installation



Designed, manufactured, tested and available **across the globe**



Hot and easy serviceability for no interruption, even during maintenance or power upgrades

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