

Vertiv™ PowerNexus

Vertiv PowerNexus – Close Coupled UPS & Switchgear



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™ Trinegy™ 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. Integrated EPMS (Energy & Power Monitoring System) is a standard feature providing active controls and monitoring to ensure reliable power quality for maximum uptime.

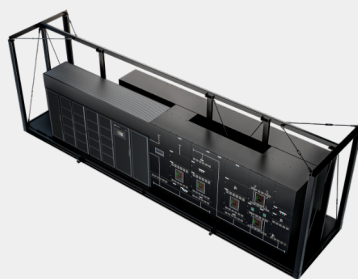
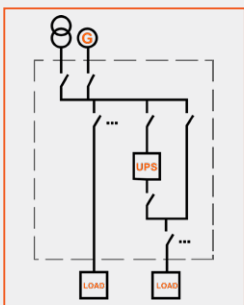
There are three possible options:

- 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-integrated in an enclosure, electrically, mechanically and digitally connected.

Key Features of Vertiv™ PowerNexus

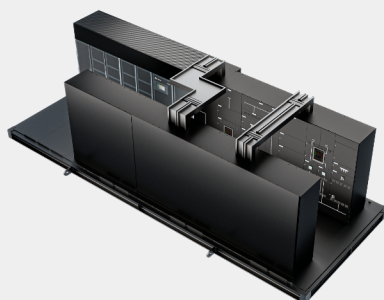
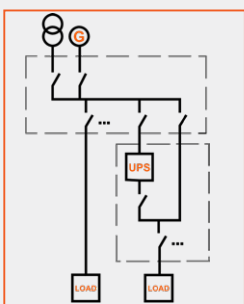
- ☒ UPS with capacity up to 2500 kVA
- ☒ UPS power range: 1500, 2000, 2500 kVA
- ☒ Switchgear with up to 5000A total load
- ☒ Dual-Power inputs for utility power redundancy
- ☒ Direct and protected (UPS) outputs
- ☒ Integrated EPMS (optional)
- ☒ Robust, modular, and highly efficient UPS
- ☒ Safe and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

In addition, there are two possible arrangements:



Back-to-Back Arrangement

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



Front-to-Front Arrangement

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

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	Assembled On-Site or Pre-Assembled in-Factory (Skid, Enclosure)		
Grounding	TN-C or TN-S		
Certification	CE and UL	CE and UL	UL
Nominal voltage [V]	380, 400, 480		
input breaker [A]	3200	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	External Bypass Available		
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-zinch



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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