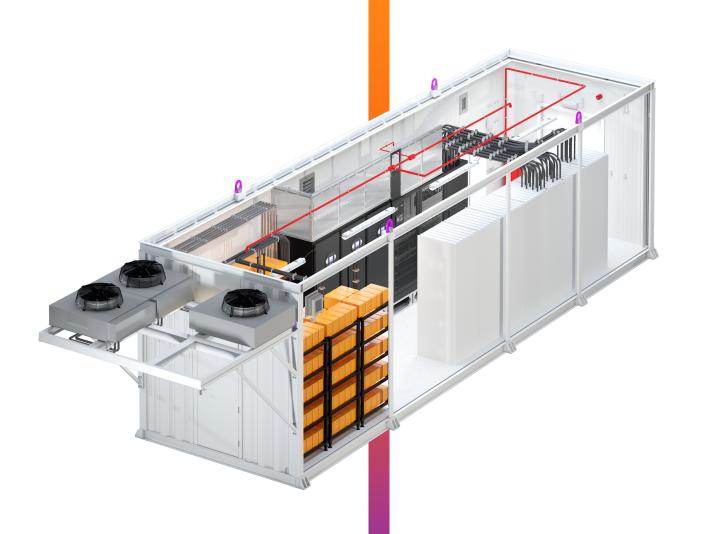


Vertiv[™] Power Module 1000/1200

1000/1200 kVA/kW packaged power infrastructure in a "plug and play" enclosure





Vertiv[™] Power Module 1000/1200 enables you to deploy isolated, power-dense critical infrastructure capacity just in time to meet your business demands.



Exterior view of Power Module 1000/1200

HIGHLIGHTS

- High power density built around market-leading Liebert® UPS technology
- Energy efficient operation with airflow containment to ensure optimal equipment conditions
- Rapid deployment with limited site work enabling nearly "plug and play" functionality
- Simple, hot scalability of your site's power capacity by simply adding more Vertiv Power Modules
- System efficiency up to 95%

For larger sites, bringing infrastructure online as soon as possible offers the largest ROI – enabling you to deliver capacity when and where it is needed. Often, this requires challenging scheduling and sequencing of skilled technicians from different disciplines, who often can't work in parallel – meaning that small project delays from one trade can snowball into big project delays.

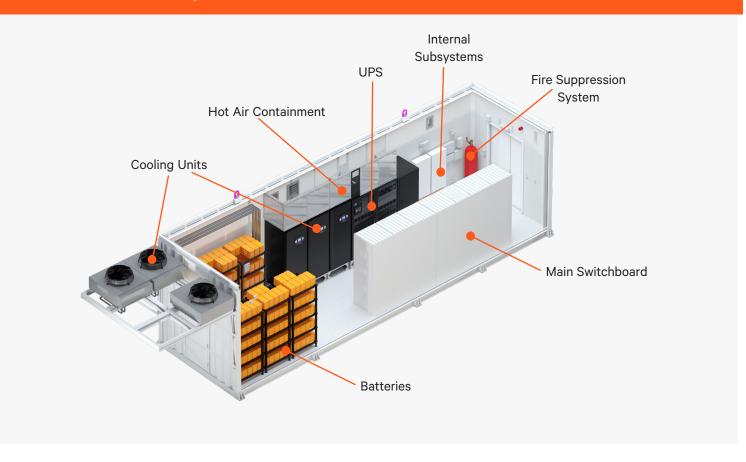
What if you could deploy critical power infrastructure in a pre-packaged way that made it independent from other construction activities?

With Vertiv Power Module, you can rapidly construct redundant blocks of 1000 or 1200 kVA/kW critical power infrastructure for your new or existing facility, allowing you to focus on the sensitive areas of the facility that require the most attention and management. And the Power Module can be used in a site architecture that is hot scalable – meaning you can add capacity to the site by simply adding additional units, without taking the critical loads offline.



Cutaway view of Power Module 1000/1200

Component Overview of Power Module 1000/1200



Power Module 1000/1200 leverages core Vertiv Critical Power and Thermal Management technologies to deliver a simple, yet robust design that grows with your needs at the most critical locations.

Power Module 1000/1200 incorporates:

- Liebert® EXL S1 UPS offers industryleading power density and proven reliability
- Multiple switchboard configurations offer distribution options for both critical (UPS-protected) and non-critical downstream loads
- Flexible incoming and outgoing power connections, overhead or underfloor, that can match the site architecture you choose

- Breaker-based normal to emergency power automated transfer
- Integral energy storage with VRLA batteries
- Redundant Liebert thermal management units with air containment – ensuring optimal operating conditions for all subsystems, even in the event of utility power loss
- Clean agent fire suppression to reliably protect assets in the event of a fire

The enclosure simplifies and drastically shortens the on-site time required to install and startup, and reduces the potential for risk, quality, or schedule delays. The entire

Vertiv Power Module and its sub-systems are designed to minimize additional work required at the site – from arrival on site to startup and commissioning in days instead of months.



Capacity & Installation Flexibility



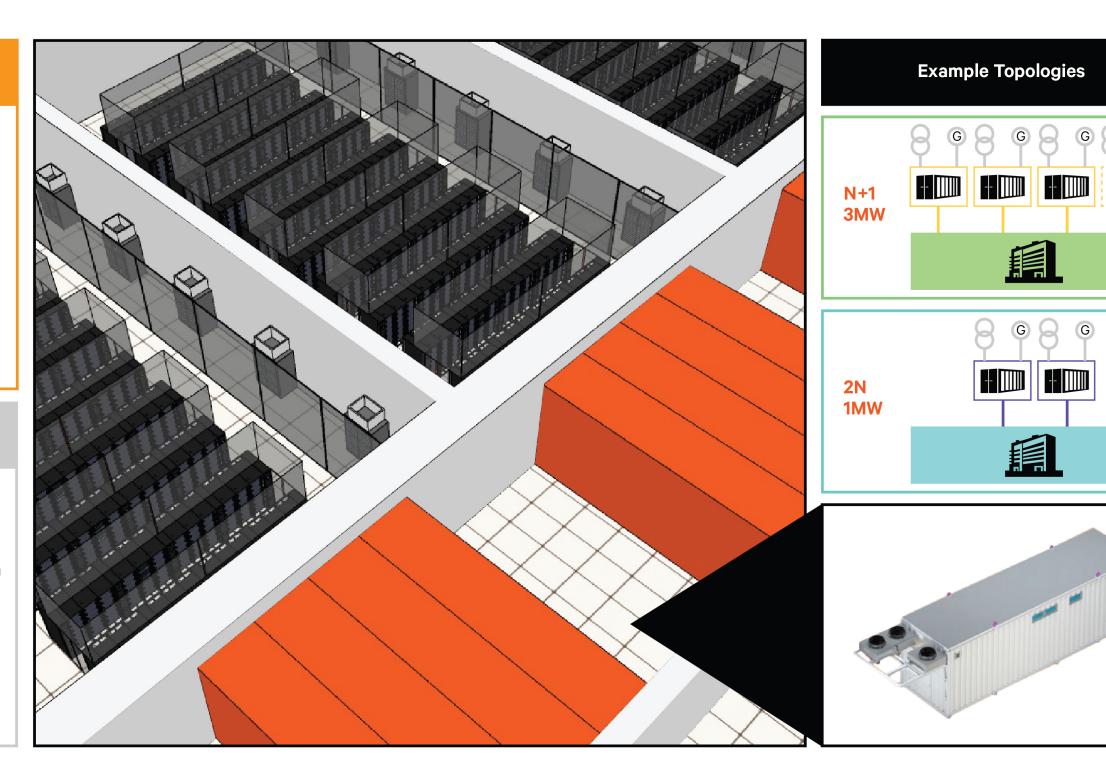
Power Module

- Single module represents a N redundant system
- 1 x UPS 1000/1200kVA
- Max Battery runtime 5 min @1000kW EOL
- Individual Transformer & Generator inputs
- UPS and Mechanical/Non-Critical load outputs

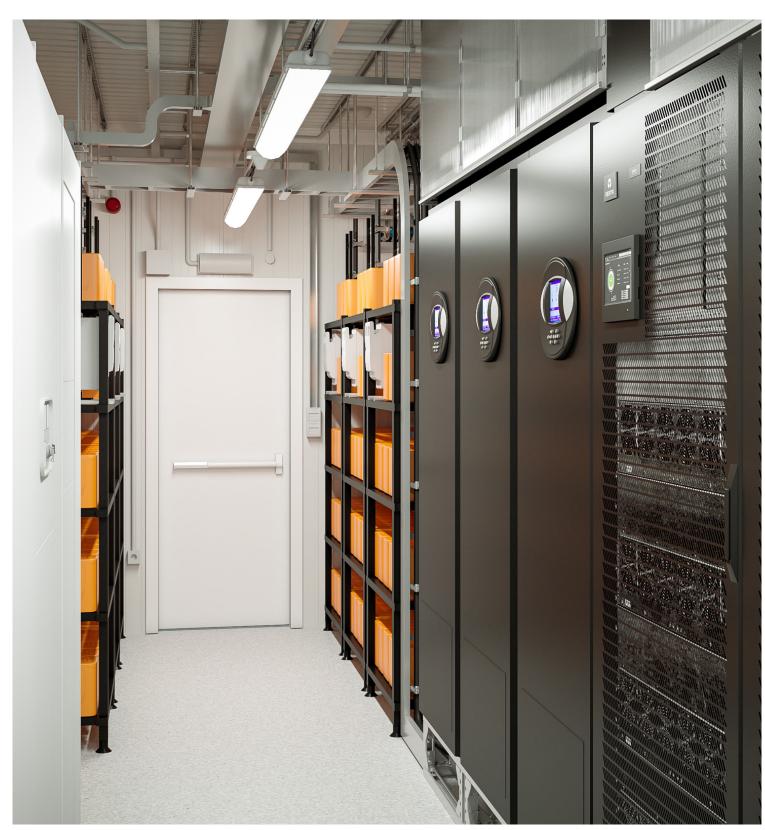


Customer Facility

- Maximized floor space for revenue generating equipment
- Multi module configuration allows for various site power topologies based on customer requirements (2N, N+1)
- Scalability Modules can be added based on initial power requirements and future expansion plans







Interior view of Power Module 1000/1200

Power Module 1000/1200 Technical Specifications

REFERENCE DESIGN	Power Module - 1000	Power Module - 1200
Enclosure External Dimensions		
Enclosure Length (*with externally-mounted condensers)	11970 (*14700) mm	
Enclosure Width	3400mm	
Enclosure Height	3550mm	
Estimated Transportation Weight	up to 22t	
Enclosure Type	Welded steel frame and walls	
Input AC Parameters		
Region	EMEA	
Voltage/Frequency	230/400V-3ph / 50Hz	
Recommended Transformer Size	2000kVA 2500kVA	
UPS		
UPS Type	Li	iebert® EXL S1
UPS Rating	1000kVA	1200kVA
UPS Active Power	1000kW@ p.f.1	1200kW@ p.f.1
Battery		
Battery Type		VRLA
Number of Maximum Battery Strings	6	
Battery Backup	5 min @ 1000kW, EOL	
Battery Disconnector Per String	Fused Switch Disconnector (DC-20)	
Cooling		
Cooling Unit Model	11	iebert PDX033
No. of Cooling Units	3	
Cooling Unit Redundancy	N+1	
Nominal Cooling Capacity Per Unit	33kW	
Exterior Ambient Operating Range	-20°C to +40C	
Fire Detection and Suppression		
Fire Detection System		Conventional
Fire Suppression System	NOVEC™1230	
Designed Concentration	5,6%	
Very Early Smoke Detection System	Optional	
Lighting		
		LED
Lighting Element Lighting Illumination at Floor Level	300lx	
Emergency Lighting	LED, 3h backup	
	L	LD, OII DUCKUP
Electrical Distribution		
Main Switchboard Rating	3200A, 3ph&N+E	3600A, 3ph&N+E
Rated Operational Voltage (Ue)		400V/50Hz
Rated Short-Time Withstand Current (lcw@1s)	50kA	65kA
IP Rating	30	
Form of Separation	Form Type 4b;IEC 61439-2	
Automatic Transfer Switch UPS Load Distribution Points:	E	Breaker Based
Bulk Feed	1x1600A	1x2000A
Semi-Bulk Feed	2x800A	2x1000A
Distributed Feed	2x(2)	x400A + 3x250A)
Cooling & Non Critical Load Distribution Points:		
Bulk Feed	1x1250A	
Semi-Bulk Feed	2x630A	
Distributed Feed	2x(2)	x400A + 3x250A)
Power Connections		Cables
		7

