

Vertiv[™] Power Module 1000/1200

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



Vertiv[™] Power Module 1000/1200

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.



Cooling Units

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

- batteries
- Redundant Liebert thermal management units with air containment - ensuring optimal operating conditions for all subsystems, even in the event of utility power loss

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

Cutaway view of Power Module 1000/1200

Component Overview of Power Module 1000/1200





Breaker-based normal to emergency power automated transfer

• Integral energy storage with VRLA

• Clean agent fire suppression to reliably protect assets in the event of a fire

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



- 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





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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)	1197	'0 (*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	2000000	2000к//
UPS Type	Liebert® 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	Liebert 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		
Lighting Element	LED	
Lighting Illumination at Floor Level	300lx LED, 3h backup	
Emergency Lighting	LE	с, 3п баскир
Electrical Distribution		
Main Switchboard Rating	3200A, 3ph&N+E	3600A, 3ph&N+E
Rated Operational Voltage (Ue)		400V/50Hz
Rated Short-Time Withstand Current (Icw@1s)	50kA	65kA
IP Rating		30
Form of Separation	Form Type 4b;IEC 61439-2	
Automatic Transfer Switch	Br	reaker Based
UPS Load Distribution Points:		
	1x1600A	1x2000A
Bulk Feed		
Bulk Feed Semi-Bulk Feed	2x800A	2×1000A
		2x1000A 400A + 3x250A)
Semi-Bulk Feed		
Semi-Bulk Feed Distributed Feed		
Semi-Bulk Feed Distributed Feed Cooling & Non Critical Load Distribution Points:		400A + 3x250A)
Semi-Bulk Feed Distributed Feed Cooling & Non Critical Load Distribution Points: Bulk Feed	2x(2x-	400A + 3x250A) 1x1250A





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