



Product brochure

Vertiv™ Liebert® PPC PDU

400-1000 kVA

Efficient and reliable power distribution for your
mission-critical applications



Power distribution, done right.

Vertiv™ Liebert® PPC has been enhanced to provide reliable uninterrupted power distribution to meet the growing demands of enterprise and colocation/hyperscale high density applications. Available standard ratings are aligned with the most common power building blocks in the industry. The Vertiv Liebert PPC is designed on a simplified and standardized platform, supporting design flexibility, easy deployment, and high-visibility monitoring.

The Vertiv Liebert PPC PDU is shipped to you with a custom configuration of sub-feeds, created for your specific site power requirements.

Key benefits of Vertiv™ Liebert® PPC



Vertiv Liebert PPC offers application-optimized selections aligned with the specific needs of today's data centers. Highly configurable to meet specific customer requirements.

Vertiv Liebert PPC with 400-1000kVA power distribution capacity serves as an ideal foundation to support larger implementations that may utilize a two-stage distribution strategy.



Benefits

Vertiv™ Liebert® PPC offers reliable and flexible power configuration mainly aimed at colocation customers, supporting their IT infrastructure. Vertiv Liebert PPC 400- 1000kVA is a family of high-power density, transformer-based power distribution products.

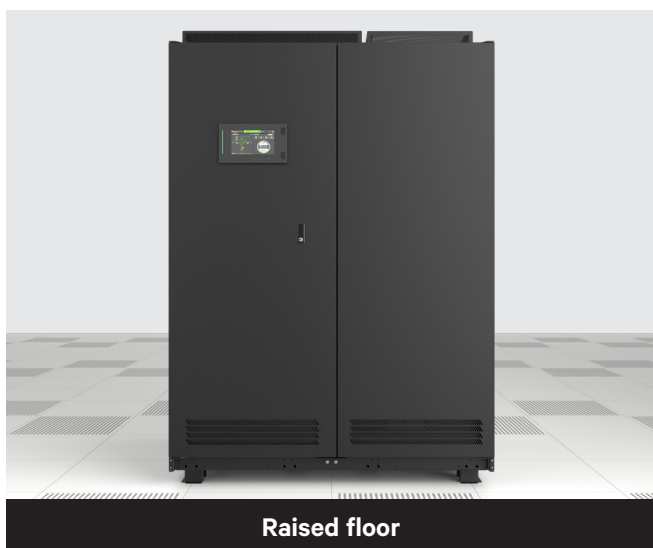
Features and benefits:

- Offers flexibility through a variety of distribution options with up to 8 subfeed breakers
- Available in 400/500/600/750 kVA as a standard offering and up to 1000 kVA as an engineer to order
- Supports dual and triple output voltage configurations. 208/120V; 400/231V; 415/240V
- Compact, space-saving footprint (60 in. W × 48 in. D × 85 in. H) allows for easier transportation/installation. More footprints exist for custom configurations*
- Front access design for better serviceability
- Copper and Aluminum transformers are available
- Top and Bottom cable entry/exit. Available for raised floor applications
- DOE 2016-compliant transformer designed to maximize energy efficiency
- Intelligent power quality monitoring via Vertiv™ Liebert® DPM with intuitive 9" color touchscreen display or customer's specification*

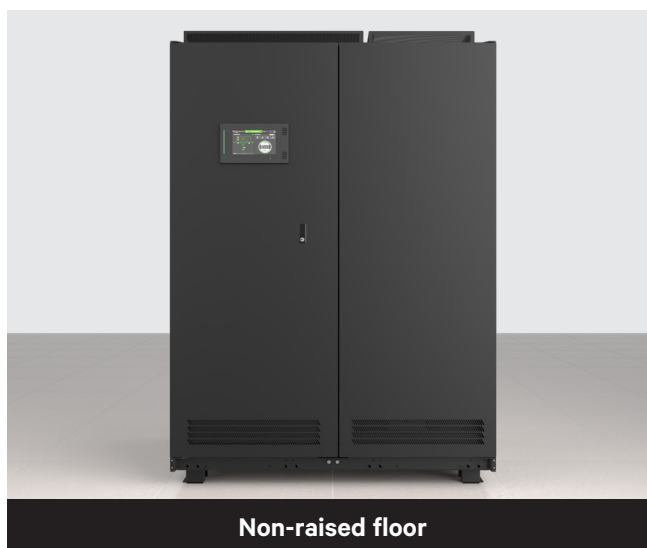


Vertiv offers the right solution to meet your data center's flexibility requirements

Vertiv™ Liebert® PPC unit is versatile and can be installed in both raised and non-raised floor applications. It provides cable entry/exit options from both the top and bottom.



Raised floor in a data center provides extensive cabling and airflow capacity in the easy-to-access underfloor area. This is particularly beneficial for large power distribution units such as the Vertiv Liebert PPC, which require extensive cabling and airflow management. Modular raised flooring offers enhanced flexibility.



No raised floor? No worries! By placing the input and output conduit connections at the top of the unit, Vertiv Liebert PPC brings the benefits of high-quality packaged power systems to non-raised floor applications. Plus, the unit retains the normal bottom output cable exit for easy relocation and expansion flexibility.

Vertiv Liebert PPC is well-suited for distributing power across a range of application areas:



Laboratories



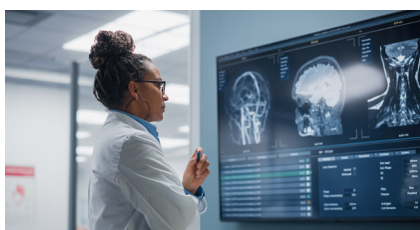
Office environments



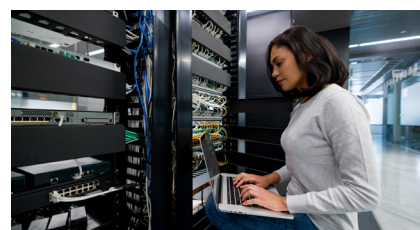
Manufacturing technology



Process control rooms



Medical imaging suites



Data centers

Vertiv™ Liebert® PPC features display



Compact design: Space-saving unit requires minimal floor space and can be easily transported in data center facilities

Touchscreen control: Vertiv™ Liebert® DPM provides a 9" color touchscreen for system programming and high-visibility monitoring.

Easy maintenance access: Front access only for service, side access recommended for installation.

Custom configurations: Power configurations are made-to-order, according to your application demands.

Sub-feeds: The distribution section allows for installation of up to 600AF and 1200AF, which are fed from the output of the transformer.

Product warranty: Comprehensive coverage through a standard exchange warranty. Fixed duration of 18 months (parts only) from product shipment date.

Distribution topology

Up to 8 × 600 AF or 4 × 1200 AF subfeed breakers

Monitoring

Vertiv Liebert DPM meters voltage, current, power, and energy at 0.5% accuracy; waveform capture optional

Breaker accessories

Auxiliary Switch(es), Alarm Switch

Access

Front access only for service, side access recommended for installation



Reliable and flexible power distribution

Vertiv provides power distribution solutions across the entire power path, from the floor to the rack. The trend for larger sites has been to adopt two stage distribution that better supports the growing number of circuits in a data center.

Two stage distribution

Use breakers at the PDU to feed remote power panels or busway to the server racks. Reduces cable congestion and opens up space for more servers. Ideal for larger scale environments.

The standard for powering critical systems

Standard features

- True front-access-only design
- Convection cooled
- DOE 2016 TP-1 Listed isolation transformer
- Main Input CB
- Distribution options –sub-feeds breakers
- Power quality monitoring and metering with 9" color touchscreen display
- Listed to UL 62368-1

Optional features

- Transient Voltage Surge Suppressor (TVSS)
- IR windows for thermal scanning
- K-Rated transformers to withstand high harmonic loads without derating
- Sub-feed monitoring with 0.5% accuracy
- Multi-output voltage taps for ultimate flexibility
- Waveform capture on inputs, transformers, and outputs

Benefits that make a difference

- Main input breaker with low-voltage shunt trip provides optional primary transformer overcurrent protection and control
- Higher efficiency than standard transformers
- Supplemental transformer protection designed to guard against abnormally high winding temperatures
- Designed to withstand neutral currents of at least 1.73 times full load
- Optional shielded output cables for each load reduce EMI and RFI



Vertiv™ Liebert® PPC

Compact design

Vertiv™ Liebert® PPC can be configured in various distribution configurations to meet specific application requirements for larger capacity demands. Each is optimized around key factors, such as footprint, flexibility and safety, while providing reliable power distribution.

Easy installation with better use of space

- Compact PDUs allow you to maximize floor space
- Front-serviceable unit can be installed adjacent to walls, in corners, or alcoves
- Removable conduit plates (approximately 3 in. on top) and 48 in. depth support installation through standard doorways and freight elevators
- Top and bottom wire input/exit accommodate both overhead and underfloor electrical conduit runs
- Intuitive on-screen display streamlines system programming and breaker configuration, including fast export and import of settings across all PDUs throughout a data center



Vertiv™ Liebert® PPC



60" W



48" D



Top and bottom cable entry and exit



Vertiv™ Liebert® DPM distribution power monitoring

Vertiv Liebert DPM is an intelligent, embedded power monitoring system that delivers accurate, real time visibility across onsite and remote facilities. A large 9" color touchscreen with a user friendly graphical interface presents a one line diagram with individual breaker and load status, simplifying operation and accelerating training. Vertiv Liebert DPM meters voltage, current, power, and energy with 0.5% accuracy to support capacity planning, billing grade insights, and continuous efficiency improvement. It streamlines deployment through automated commissioning and import/export of configurations, and it integrates seamlessly with BMS/EPMS platforms to centralize monitoring and control.



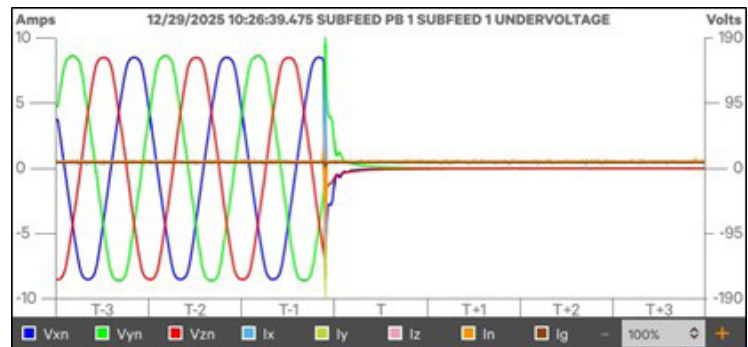
Uptime is protected with automatic overload notifications and both remote and local EPO, while configurable visual and audible alarms surface abnormal conditions before they disrupt operations. Event-triggered waveform capture records and visualizes power disturbances as they occur, helping teams speed root-cause analysis, document power quality events, and optimize incident response.

Combined with continuous sampling and comprehensive monitoring, data center teams can leverage Vertiv Liebert DPM insights to balance phases, manage white space utilization, independently calculate PUE, and measure progress over time.

STATUS											
Normal Operation											
11/24/2025 3:47 PM											
METERING											
Component	Freq	Voltage L-L (Volts)			Current (Amps)			Current (%)	Power (kW)	Peak Curr.	Peak Demand
		Ph. A	Ph. B	Ph. C	Ph. A	Ph. B	Ph. C				
✓ Input	601	480.0	480.0	480.0							
✓ Transformer	601	208.0	208.1	207.9	310.5	308.7	308.4	37.3	111.9		120.0
✓ Branch PB 1	0.0	208.0	208.1	207.9	145.59	145.53	145.59	36.4	52.45	156.22	56.28
✓ Branch PB 2	0.0	208.0	208.1	207.9	74.76	74.75	74.76	18.7	26.93	80.22	28.90
✓ Subfeed 1	601	208.0	208.1	207.9	45.15	45.60	43.80	18.2	16.43	51.07	18.40
✓ Subfeed 2	601	208.0	208.1	207.9	34.04	33.19	34.38	13.8	12.39	38.51	13.87
✓ Subfeed 3	601	208.0	208.1	207.9	29.48	27.71	28.30	11.8	10.62	33.02	11.90

STATUS						
Normal Operation						
11/24/2025 3:47 PM						
EVENT LOG						
Date/Time	Type	ID	Status	Component	SubComp	Description
12/28/2025 19:00:55.000	Fault	135	ON	Input 2		High Voltage THD: 19%
12/28/2025 19:00:55.000	Fault	112	ON	Input 1		High Voltage THD: 68%
12/28/2025 19:00:55.000	Fault	215	ON	Branch PB 1		Main Shutdown UV: 62V 7...
Description: Main Shutdown UV: 62V 79V 86V						
12/28/2025 19:00:55.000	Fault	215	ON	Branch PB 2		Main Shutdown UV: 19V 54...
12/28/2025 19:00:54.105	Alarm	341	ON	Subfeed PB 1	Subfeed 1	Neutral Overcurrent: 105A
12/28/2025 19:00:53.104	Alarm	313	ON	Subfeed PB 1		Neutral Overcurrent: 104A
12/28/2025 19:00:52.103	Alarm	213	ON	Branch PB 2	Branch 2	Neutral Overcurrent: 103A
12/28/2025 19:00:51.102	Alarm	213	ON	Branch PB 1	Branch 1	Neutral Overcurrent: 102A

STATUS	
Subfeed Phase Overcurrent	
11/24/2025 3:37 PM	
SUBFEED 1	
Meter Data	Events
Date/Time	Description
11/24/2025 2:37 PM	! Breaker Tripped
11/24/2025 2:37 PM	! Ph Overcurrent



Benefits

- User-friendly graphical interface
- Single-line diagram showing real-time system status
- Accurate power usage metering for billing or cost allocation
- Automatic charting display for logged power and environmental data
- Management of equipment loads on local and remote facilities
- Visual and audible warnings of near overload conditions
- Optional waveform capture for easy identification of power quality issues or outages
- Optional local and remote Emergency Power Off

9-Inch touchscreen display

Breaker accessory monitoring

Alarm annunciation

On-screen programming

Waveform capture

Transformer in/out



Technical specifications

Electrical

kVA Rating	Standard: 400, 500, & 750 kVA; up to 1000 kVA by engineer to order.
Input	3-phase, 3-wire plus ground
Input voltage	At 60 Hz: 480V, 600V
Output	3-phase, 4-wire plus ground
Output voltage	208/120 V, 415/240 V, or 400/231 V output. Multi-voltage output and additional custom voltages available
Agency listed to	UL 62368-1; FCC Part 15B for EMI and ANSI/IEEE C62.41 (when surge devices installed)

Operating conditions

Operating temperature	0 to 40°C
Storage temperature	-20 to 55°C
Audible noise	Meets NEMA ST-20 standard
Relative humidity	0 to 95% non-condensing
Altitude	up to 6,600ft

Transformer

Meets DOE2016 standard	Yes
Transformer ratings (K factor) *	K4, K13 and K20*
Transformer material type	Copper (Cu) and Aluminum (Al)
Neutral conductor rating	200%
Temp rise options	150°C (Standard), 115°C*

Monitoring

Vertiv™ Liebert® DPM is standard monitoring; optional third-party monitoring is available on request.

Monitoring locations	Transformer input and output, mains, subfeeds, branch circuits
Display	9" color touchscreen with user-friendly graphical interface showing one-line diagram and individual breaker status
Accuracy	0.5% for voltage, current, power, and energy
Power quality	Power factor, harmonics, waveform capture (optional)
Event logging	Up to 1000 events at 1ms timestamp precision
Communication	Vertiv RDU120 monitoring card with UL2900-1 and IEC 62443-4-2 cybersecurity certifications
Protocols	Velocity RS-485, Modbus RS-485, Modbus (IP) TCP, BACnet/MSTP, BACnet IP, SNMP, SMS, HTTP/HTTPS, email

Physical

Dimensions	60"W × 48"D × 85"H
Unit weight, lb. (kg)	400 kVA: 5,207 lb (2,362 kg); 500 kVA: 5,842 lb (2,650 kg); 600 kVA: 5,998 lb (2,721 kg); 750 kVA: 7,119 lb (3,229 kg)
Shipping weight, lb. (kg)	400 kVA: 5,349 lb (2,427 kg); 500 kVA: 5,984 lb (2,715 kg); 600 kVA: 6,140 lb (2,786 kg); 750 kVA: 7,261 lb (3,294 kg)

* Some configurations are engineered to order. Technical specification of ETO configurations may be different from what is specified above. Contact Vertiv for more information.

Critical systems, critical care: additional services for added protection

Preventative and emergency support

Maximizing the performance and efficiency of your data center's uninterruptible power supply (UPS) and other power distribution systems requires systems be properly maintained by factory-trained technicians. Vertiv™ Services delivers proactive maintenance designed to extend the life of your power systems, decrease capital investment, optimize system efficiency, and increase overall system availability.

- 24x7 critical maintenance response
- Proactive service, extends system life
- Improved MTBF and MTTR
- Local factory trained engineers ready to respond
- Parts, expertise, satisfaction

Warranty information

Vertiv™ Liebert® Three-Phase AC Power Products: A fixed duration of 18 months (parts only) from product shipment date. Product shipment date is determined only from the bill of lading.

If any part or portion of the Vertiv™ product fails to conform to the warranty within the warranty period, Vertiv, at its option, will furnish new or factory remanufactured products for repair or replacement of that failed portion or part. Repair or replacement of a defective product or part thereof does not extend or restart the original warranty period. Vertiv does not control the use of any product and, accordingly, materials classified as “descriptions” are not warranties of performance and not warranties of fitness for a particular purpose.

Grounding studies

A grounding system is one of the most important, yet neglected, segments of a critical facility's electrical power system. Testing it is not only prudent, it is required by the National Electrical Code. Grounding studies are designed to help identify and address low-level arcing ground faults that can destroy your switchgear in seconds and put personnel in danger. Vertiv's grounding studies include the required tests and inspections needed to verify your system's integrity.

Full range power distribution

For all your floor or rack mounted power distribution needs, remember that Vertiv has many innovative and effective solutions. Shown are a few examples.



Vertiv™ Liebert® RXV RPP with panelboard or branch circuit level monitoring available in configurations of 1 to 4 units for space-saving deployments.



Power-packed testing center proves business-critical reliability

The Vertiv™ Power Test Center for large power systems is a state-of-the-art test facility designed to provide customers with pre-installation testing of the performance, interoperability, and efficiency of Vertiv™ power modules and systems under a variety of conditions. Located in Delaware, Ohio, the 41,000 square-foot facility, including a 2,600 square-foot customer observation suite, is the largest and most comprehensive in the industry.



Testing includes individual UPS modules as well as the complete power system—including large UPS units and associated switchgear, power distribution and ancillary products—and is essential to the smooth, rapid installation and commissioning of large power systems. Customers leave the Power Test Center with documented test results and confidence that their complex power system will operate seamlessly and in accordance with business-critical availability requirements.

Test results certify the input and output, AC and DC characteristics of the system. Performance comparisons against specifications include, but are not limited to:

- Voltage and waveform
- Voltage regulation
- Voltage and current harmonics
- Frequency

- Current and waveform
- I/O power factor
- Efficiency based on kW in and out
- Monitoring functionality

Customers may request special tests in addition to the above.

