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Product brochure

# Vertiv™ PowerStation 3100 RPP



## Overview

The Vertiv™ PowerStation 3100 Remote Power Panel (RPP) consolidates 600A to 1,200A distribution into a single pre-certified frame for dense row deployments. A custom busbar architecture paired with molded case circuit breakers (MCCBs) carries the full density range in a compact footprint. Integrated revenue-grade metering through Vertiv™ Liebert® DPM delivers per-circuit intelligence and remote breaker control at every branch.

One commission-ready unit can replace custom switchgear and stacked traditional RPPs with scalable, standardized power distribution for the 100 kW+ rack era.

## Key features

### Protecting power quality and high availability

- **100%-rated main breaker at 65kA AIC, no derating at full load.** Up to 22 three-pole MCCBs configurable to 150A per circuit.
- **Branch-level shunt trip isolates circuits without physical intervention.** Designed to reduce arc-flash exposure risk under NFPA 70E.
- **Adjustable LSI/LSIG electronic trip settings.** Selective coordination can reduce arc-flash incident energy through staged protection.
- **Event-triggered waveform capture, sub-cycle, NTP-timestamped.** Supports GPU-cluster validation during commissioning and fault investigation during operation.




*Vertiv™ PowerStation 3100 RPP*

**600A to 1,200A**

Four ratings, one 90 in x 38 in x 16 in frame

**22**

Three-pole branch MCCBs, up to 150A each

**0.5%**

Metering accuracy at every branch

## Applications

- **Neocloud operators**
- **Cloud service providers**
- **Multi-tenant colocation facilities**
- **Enterprise AI and HPC deployments**




*Vertiv™ PowerStation 3100 RPP data screen*

## Deploying at scale

- **Four mounting configurations from a single 16-inch-deep frame.** Side-by-side, back-to-back, wall-mount, or standalone orientations accommodate varying mechanical layouts without custom enclosures.
- **Front-only service access.** No rear clearance required, preserving aisle space in dense row deployments.
- **Top cable entry with up to 6x3-inch conduit openings.**
- **Configuration export and import between units**. Site-specific settings transfer between units, accelerating commissioning across large deployments.
- **UBC Zone 3 seismic rating (IBC validated).** Structural certification is already included.




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## Revenue-grade metering

- **0.5% accuracy at every branch through Vertiv™ Liebert® DPM.** Supports tenant billing, PUE measurement, and energy data collection.
- **Individual current transformers on every branch circuit.** Operators balance phases, track white-space utilization, and monitor rack-row consumption.
- **No separate energy and power management system required.** Metering is integrated.



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## Monitoring and integrating

- **9-inch color touchscreen with one-line diagram.** The door-mounted display shows individual breaker status, equipment load level, and power quality data at a glance.
- **Native BMS and EPMS communication.** Modbus TCP/RTU, SNMP v1/v2c/v3, and BACnet IP/MSTP connect directly to existing management systems.
- **Automatic notifications.** Potential overloads and faults trigger alerts via HTTPS, email (SMTP), or SMS.
- **1,000-event log at 1ms precision.** Timestamped records support post-event analysis without external logging hardware.
- **System programming and load management.** A navigation menu supports site-specific configuration from the front panel.

# Busbar, breakers, and controls in one cabinet

- **9-inch HMI**
  Human Machine Interface, door-mounted color touchscreen with one-line diagram and breaker status.
- **Front-only service**
  No rear clearance, so units go side-by-side, back-to-back or against a wall.



- **Top cable entry**
  Six 3-inch conduit openings for conductors up to 500 kcmil. No raised floor needed.
- **Main breaker**
  100% rated MCCB at 65kA AIC with an adjustable electronic trip unit.
- **22 branch MCCBs**
  Three-pole, up to 150A per circuit, each with 24VDC shunt trip and its own CT.
- **Custom busbar**
  One busbar backbone feeds every branch, instead of stacking traditional RPPs.

*Vertiv™ PowerStation 3100 RPP*

# A compact footprint for dense rows




*Vertiv™ PowerStation 3100 RPP, front view*




*Vertiv™ PowerStation 3100 RPP, three-quarter view*



*Vertiv™ PowerStation 3100 RPP, rear view*

## Specifications

| Parameter | Specification |
|---|---|
| **Electrical** | |
| Rated current | 600A / 800A / 1,000A / 1,200A |
| Rated voltage | 415Y/240V; 480Y/277V |
| Frequency | 60 Hz |
| Phases | 3-phase + Neutral |
| Neutral | 100% rated |
| Main breaker | Molded case circuit breaker: 600A / 800A / 1,000A / 1,200A 100% @ 65kA AIC |
| Main breaker trip unit | Adjustable LSI electronic trip (optional: LSIG) |
| Branch breakers | Up to 22 x 3-pole MCCBs, 60A/100A/150A, 35kA or 65kA AIC |
| Maximum branch output | 150A |
| Breaker accessories | Shunt trip (24VDC), aux contacts, bell alarms, padlocks |
| **Physical** | |
| Dimensions (H × W × D) | 90" x 38" x 16" (2,286 x 965 x 406 mm) |
| Unit weight | 814 lbs. (369.2kg) |
| Shipping weight | 926 lbs. (420 kg) |
| Cable entry | Top only, up to 6 x 3" conduit |
| Service access | Front only |
| Display | 9" color touchscreen, door-mounted |
| Orientation | Side-by-side, back-to-back, wall-mount, standalone |
| Operating temperature | 0 to 40°C (32 to 104°F) |
| Seismic | ICC-ES AC156 certified (IBC/CBC) |
| Floor compatibility | Raised floor or slab |
| Enclosure type | Type 1 / NEMA 1 (Indoor) |
| **Monitoring** | |
| Metering accuracy | 0.5% |
| Branch sensing | Individual CTs per circuit |
| Event log | Up to 1,000 events, 1ms precision |
| Waveform capture | Event-triggered, NTP-timestamped (optional) |
| Protocols | SNMP v1/v2c/v3, Modbus TCP/RTU, BACnet IP/MSTP |
| Notifications | HTTPS, Email (SMTP), SMS |
| Power factor (per circuit) | Yes |
| Energy (kWh) | Per phase and per branch |
| Total harmonic distortion (THD) (voltage & current) | Per phase (incl. 3rd, 5th, 7th, 9th harmonics) |
| Crest factor | Per phase |
| Ethernet ports | 2 × RJ-45 10/100 Mbit |
| USB port | USB 2.0 (diagnostic/config) |
| Web server | HTTPS browser interface |



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