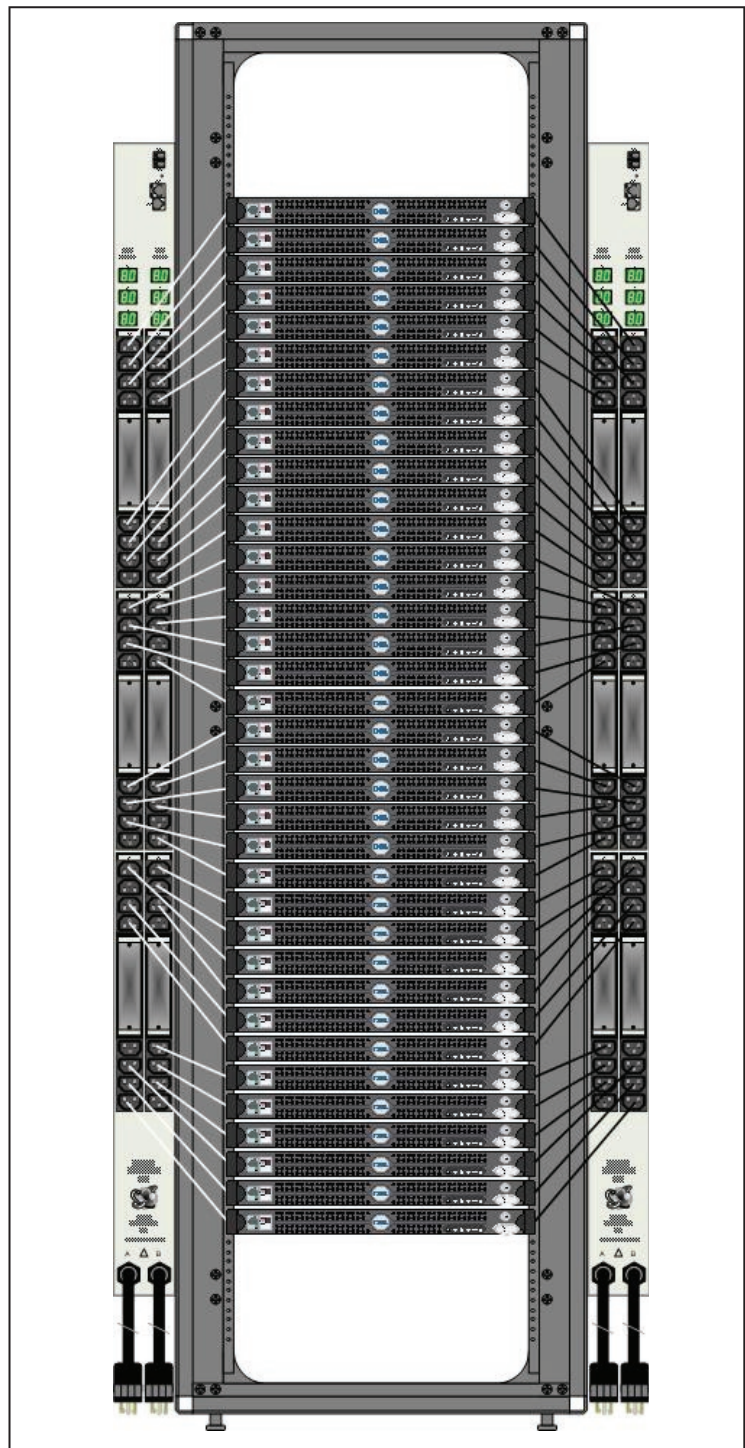


Application Overview:

High density and high availability 1U "pizza box" server installation with system uptime being a key design driver, each server has dual power supplies

Statistics:

- > Thirty six (36) Dell™ PowerEdge™ 1805 servers with dual Xeon processors
- > Two (2) dual-in-feed Sentry™ Smart Cabinet Distribution Units (CDU's), Model Number CS-48VD
- > Power Required: Average load for 36 Dell servers is 15,912 W (per the configuration calculator) or 442 W per server
- > Power Input: Four (4) 208V 30A, 3-Phase power infeeds
- > Power Output: 208V single phase output power across qty (96) IEC60320/C13 outlets distributing approximately 43,000 kW of power or 34,600 kW of power derated
- > Two (2) model CS-48VD's are capable of easily distributing twice the amount of power required to operate the servers providing enough power for redundancy



Benefits:

Single-point-of-failure concerns are eliminated as each power inlet of every Dell server is cabled such that one supply receives power from one CS-48VD unit and the second power supply receives power from the second CS-48 VD. This configuration allows complete power down for removal or replacement of either CS-48VD unit without disrupting operations of the servers. It also allows for being able to bring down any two of the four 208V/30A power input feeds for maintenance or other reasons.

Sentry Smart CS-48VD units support true RMS load monitoring for each line of the three phase source. Individual "Input Current" displays provide at a glance indication of the load per line which provides the ability to properly load balance each phase. Matching each branch of outlets with an equal number of Dell power inlets makes load balancing a simple process.

Features:

- > Dual Input CDU's
- > 3-Phase Input Power CDU's
- > Vertical Zero U CDU's
- > Optional Environmental Monitoring
- > IP Addressable CDU's with SNMP and configurable thresholds and alarms

Key Differentiators:

- RMS Current Monitoring
- CS-48VD units are IP addressable with integral web based GUI
- Remote monitoring of the current load per line with configurable thresholds and SNMP traps and alarms
- Remote monitoring of up to four (4) external temperature and humidity probes with configurable thresholds and SNMP traps and alarms
- In-feed On-sense verifications with SNMP traps and alarm notification upon loss of any or all of the power infeeds
- Outlet On-sense with SNMP traps and alarm notification upon loss of power to an outlet branch due to an over current or short circuit fault

Summary:

For mission critical server applications where maximum up-time is required 3-Phase redundant power is brought down to the cabinet level for redundancy and a properly cabled CDU eliminates single points of failure. While Smart CDU's also provide piece of mind knowing that should a problem exist instant alarm notifications via SNMP are provided.



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