

# How do I provide high density rack power while optimizing panel pole positions?



APPLICATION NOTE HDOT-006

September 2017

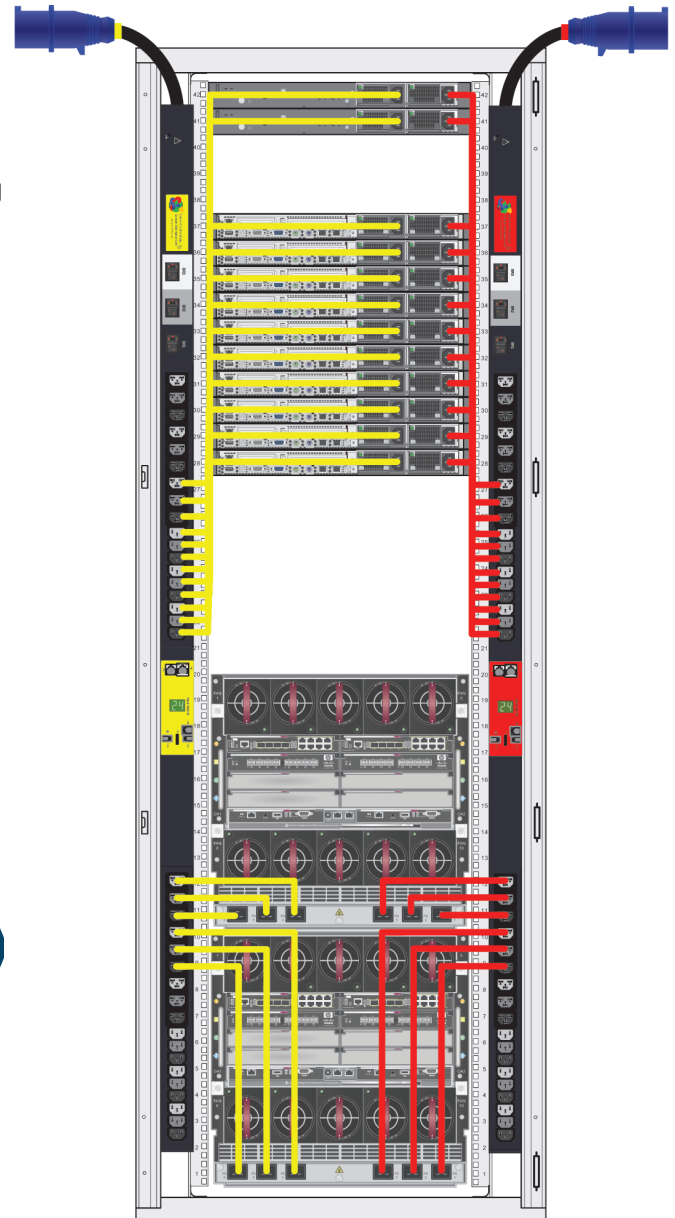
## Learn about the benefits of the HDOT® single-phase solution.

### Typical Application

I have been deploying company private cloud resources across North America. The standard rack design uses just about 8 kW, thus I have been using 3-phase 30A 208V standard. In the next build-out, I've been told by the co-location facility that single-phase is better for optimizing their panel pole positions. What is the best solution for meeting the density requirements without doubling-up on PDUs?

### Our Solution

The 60A single-phase HDOT® rack PDU was designed for exactly this purpose. Bring up to 10 kW redundant to each rack using just a single pair of rack PDUs. In some studies, the full infrastructure cost to run 2-pole 60A circuits beats that of 3-pole 30A circuits. With this build-your-own HDOT PDU, your outlet configuration and functionality needs are met. Add Sentry Power Manager (SPM) for capacity planning analysis of all your national sites.



Pictured right is a C2S36CE-2QAF2M66 Smart Master PDU with a C2L36CE-2QAF2M66 Link PDU. Choose from six highlight colors and a variety of outlet and plug combinations. Add up to four EMTH-1-1 for monitoring of temperature and humidity.

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# High Density Outlet Technology



## HDOT Smart PDUs Maximize Density

Server Technology's High-Density Outlet Technology (HDOT) PDUs meet the needs of a wide range of data center equipment cabinets. High power densities and reduced cabinet space require new and innovative products like Server Technology's own patented outlet technology that provides industry standard C13 and C19 outlets in a drastically reduced footprint. Additional features include high native cord retention that eliminates the need for custom and costly ancillary locking cord devices. Manufactured with robust high temperature materials carrying a UL94 V-0 flame rating makes these outlets ideally suited for harsh data center environments.

### Key HDOT Benefits

- Industry standard C13 and C19 with minimized footprint
- Maximum possible outlet density in an Intelligent PDU
- High native cord retention, reducing the need for additional locking devices
- Color-coded alternating-phase outputs for easy cabling
- Operation to 60°C (140°F) ambient
- Thousands of variations available using our online Build-Your-Own Smart PDU Tool

### Key Smart PDU Benefits

- PIPS® (Per Inlet Power Sensing) high-accuracy measurements of current, voltage, power, and other key power metrics
- Environmental measurements through plug-and-play probes
- SNMP traps and email alerts
- Master-Expansion linking allows single-IP access to the cabinet pair of PDUs



# About Server Technology®

Server Technology, a brand of Legrand, is leading the engineering and manufacturing of customer-driven, innovative and exceptionally reliable power, access and control solutions for monitoring and managing critical IT assets for continual availability.

Server Technology's power strategy experts are trusted to provide Rack PDU solutions for data centers worldwide ranging from small technology startups to Fortune 100 powerhouses. Because power is all we do, Server Technology can be found in the best cloud and colocation providers, forward thinking labs, and telecommunications operations.

Server Technology customers consistently rank us as providing the highest quality PDUs, the best customer support, and most valuable innovation. We have over 12,000 PDU configurations to fit every data center need and most of our PDUs are shipped within 10 days.



## Rack PDU Buying Guide

Find the best PDU for your data center

[servertech.com/rack-pdu-buying-guide](http://servertech.com/rack-pdu-buying-guide)



## Rack PDU Selector

Over 2000 standard configurations

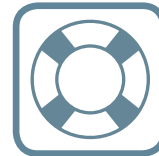
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## Build Your Own PDU

Build an HDOT or HDOT Cx PDU in 4 easy steps

[byopdu.servertech.com](http://byopdu.servertech.com)



## Speak to a Power Expert

Get free technical support

[servertech.com/support](http://servertech.com/support)



## How to Buy

Tools to simplify the PDU buying process

[servertech.com/how-to-buy](http://servertech.com/how-to-buy)



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