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HDOT Alt-Phase PRO2 Switched POPS FAQ February 2018

1) Q: What is the significance of this product?
   A: Server Technology has added POPS (Per Outlet Power Sensing) to its industry leading and award winning ***HDOT PRO2 Alternating Phase Rack PDUs***. This product expands upon the most innovative power product on the market, with solutions for density, capacity planning and uptime in the modern data center.
2) Q: What is HDOT?
   A: To combat the limited physical space that PDUs compete for in the data center rack, Server Technology developed High Density Outlet Technology (HDOT), the smallest form factor PDU which significantly increases real estate in the back of the rack by fitting as many as 42 C13's in a 42U high network managed PDU device—that's over 20 percent smaller than a comparable PDU using standard outlets. This was accomplished by removing the shell that surrounds commercially available C13 and C19 outlets, and creating a series of multi-outlet modules in a variety of configurations that fit into a common monolithic metal enclosure. To exploit this design and the thousands of variations it makes available, Server Technology developed a quick turn manufacturing process that provides short lead times for PDU's with the exact combination of C19 and C13 outlets in the locations where the customer needs them. The HDOT design implements high native cord retention of over 10 pounds pull strength, reducing or eliminating the need for custom and costly ancillary locking cord devices. With increasing outlet density comes increased power, and potentially increased heat. HDOT is manufactured with robust high temperature materials carrying a UL94 V-0 flame rating, making these outlets ideally suited for the harshest data center environments.
3) Q: What is Alt-Phase?
   A: To simplify load balancing and cable management, Server Technology offers PDUs with Alternating Phase outlets, which distributes phases on a per receptacle basis (rather than in discrete separate banks), providing tangible benefits in the form of shorter cable runs, resulting in better airflow, easier load balancing, and greater efficiencies. Prior to the advent of HDOT, Alternating Phase products were impractical to build due to the low outlet density inherent with discreet commercially available outlets.
4) Q: What is PRO2?
   A: PRO2 is a flexible and feature rich hardware and firmware platform, higher on board compute power, all modern security protocols, redundant features, and advanced customization all built into the product. The new PRO2 architecture is ideal in any situation where reliability and uptime are important, particularly in high temperature and high security applications. With

PRO2, customers can maintain uptime with access to current data and future trends. Read the PRO2 FAQ for more detailed information.

5) Q: What are Switched outlets?
   A: With the ability to turn ON and OFF or reboot outlets individually or as a group, certain features become possible such as, outlet lock-out, power-up sequencing that reduces the concern of power-up inrush, and our optional smart load shedding.
6) Q: What is POPS?
   A: Per Outlet Power Sensing provides +/-1% billable-grade accuracy for energy consumption at each outlet for typical data center equipment loads. POPS also includes current, voltage, active power, apparent power, power factor, and crest factor at each outlet. This provides for the ultimate in efficiency and capacity analysis. Also, use alerts for high current, high/low voltage, and low power factor for extended visibility.
7) Q: What configurations of this are available?
   A: Tens of thousands of variations are available for the HDOT Alt-Phase PRO2 rack PDU. See the Build-Your-Own PDU website at byopdu.servertech.com to configure your perfect Switched POPS, Smart POPS, Switched only, or Smart only high-density rack PDU.