

Z-PDS™ Zonit Power Distribution System



The Zonit **Z-PDS** system moves the nexus of power configuration changes from the panelboard on the wall or busway to the rack and puts it under your control. Building out your power distribution and later making the at-the-rack changes you need to run your data center becomes quicker, easier and cheaper. The system increases reliability and uptime by reducing the domain of failure when a circuit breaker trips and automating the process of balancing the loads on the multiphase input power

Z-PDS DEPLOYMENT METHODOLOGY

- Determine the Lifetime Power Density Target, Average & Maximum Watts per rack for each area of data center
- Plan Wall/Floor to Rack Build-out Specifications
 - 30A, or 60A three phase whips in A-B pairs per set of racks to be powered by each zPDU unit
 - Works w/ EMT whips, Flexible Whips & Busway
 - Terminate power delivery in appropriate receptacles or busway taps

Now you have an A-B standardized grid of three-phase power deployed on your floor

Z-PDS FEATURES AND MODELS

- Only have to buy what is needed to populate racks
- Can add later to reach max power density target
- Z-PDU's available w/ 30A, 60A 3 ϕ 208V|415V|480V A-B inputs & four to six 20A or 30A 3 ϕ outputs
- Plugstrips - *Vertical or Horizontal* - Zonit and/or third-party single or three-phase models in 15, 20 or 30Amps
- Plug Adaptors (available from Zonit zPDS catalog)
- Hydra Adaptors (Excellent for powering Blade Servers w/o plugstrips)

Deploy Z-PDU units as needed, connect to three-phase wall-to-rack delivery.

- Connect plugstrips, plug-adaptors and hydra adaptors to Z-PDU as needed, via twist-lock connectors
- Connect end-user IT equipment

Living with the Z-PDS system is easy; it was built to support the changes you need to make.

- Move and re-deploy as needed, when needed
- As power requirements at-the-rack change, either plug new Z-PDS units into available power whips or re-configure cabinet power using existing Z-PDS units and Zonit plug adaptors; no need to pay for expensive power whip re-configurations.
- All changes can be done quickly & cheaply using the Z-PDS plug&play methodology by your staff
- "Technicians not Electricians"; No need to pay for expensive power whip re-configurations.

zPDS BENEFITS

The Z-PDS system has been deployed for many years in Fortune 1000 environments and has a rich feature set. It has recently been refreshed to support even higher power densities, supporting up to 60A 3 ϕ 208V|415V|480V inputs.:

- Inputs: 30A or 60A 3 ϕ 208V|415V|480V A-B inputs, hardwire or plug option
- Output: 3 \emptyset or single phase; reconfigurable at the rack using locking plug adapters.
- Patented statistical phase balancing of the input source power phases
- Individual circuit breakers protect each "hot" phase of each output.
- Interoperability with all busway, EMT, Flexible whip inputs in either raised floor or overhead environments
- Reduces costs for both installation and operation of data center power distribution
- Your staff can make needed power configuration changes at the rack without electricians
- Reduces whip and cord tangle, clutter, and airflow blockage.
- Powers multiple cabinets depending on chosen power density
- Maximum redundant full load VA: 49.8kVA (at 480V), 41.3kVA (at 415V) or 21.6kVA (at 208V) per input.
- Maximum non-redundant full load VA: 172.9kVA (at 480V), 149.5kVA (at 415V) or 43.2kVA (at 208V) per input.
- Supports both "build it as you go" and "build it once" power distribution build-out methods.
- Implements best practice of distributing an IT power grid based on maximum planned power density.