

# Cyberex® Power Distribution Slim (PDS) Power distribution system

Power Distribution Slim (PDS) – reduced footprint power distribution unit

Today's datacenters are struggling to add servers to meet the ever-increasing demand for computer services. Not all installations have the luxury of a sprawling computer room for expansion. Small data centers are bounded by the available floor space and must make the best use of every square foot. The Cyberex PDS blends the isolation transformer and panelboard distribution into the middle or end-of-the-rack line-up, saving valuable space normally taken by over-sized PDU cabinets. The mid-sized transformer in the PDS is tuned to the rack form factor to maximize power density while offering all the same features found in a full-sized PDU.

Big mission critical features in a small package

## Product features

- (2) 42 circuit panelboards placed conveniently within your rack line-ups
- Top or bottom entry with bottom exit provides flexible installation options
- Branch circuit management provides detailed status of individual circuits and early warning of overloads
- Advanced communications allows remote monitoring of circuits by the BMS
- Local display can be used as an ethernet gateway to concentrate branch circuit data from up to 15 other RPPs
- Optional seismic rated floor stands available



# Circuit management

Designed for performance, flexibility and usability

Take your RPP to the next level by managing your critical loads at the individual branch circuit level. Rely on Cyberex's circuit management solutions to monitor and alert your staff of potential problems before they occur. Understanding load profiles is the key to proactively managing your data center distribution system and avoiding unnecessary downtime.



- Branch circuit management – Up to four (4) 42 circuit panel boards (168 poles)
- Sub-feed circuit management – Up to thirty two (32), 3-wire or twenty four (24), 4-wire sub-feed breakers
- Main-feed circuit management – Up to four (4) sources in multi-fed RPPs can be monitored: phases, neutral and ground

## Advanced communication

- Communicate valuable system data to building management systems (BMS) or local display
- Protocols available: Modbus RTU, Modbus TCP, BACnet to Modbus converter, SNMP trap alarm, web server

## Monitor system parameters including:

- Voltage-current (RMS)
- MIN current
- MAX current
- kW (power)
- kVA-load
- Power factor (PF)
- Total harmonic distribution (THD)

## Configure system warnings and alarms including:

- Over/under current
- Over/under voltage
- Over kW
- Over THD
- Low PF
- Phase loss

## PDS product specifications

### Electrical

kVA	50, 75, 100, 125kVA
Input	480VAC, 60Hz, 3-phase, 3-wire + ground
Output	208/120VAC, 3-phase, 4-wire + ground

### Transformer

Type	Copper, delta-wye, dual shield, class 220, 200% neutral, 60Hz
K-rating	K-20 (std.), K-13 (opt.)
Temperature rise	150°C (std.), 115°C (opt.)
Taps	(4) 2.5% FCBN, (2) 2.5% FCAN

### Distribution

Panelboards	(2) Square D or ABB standard 42 circuit
Sub-feeds	(8) Square D or ABB 250A and below

### Operating conditions

Temperature	0 to 40°C (operating), -40 to 60°C (storage)
Audible noise	50dBA (maximum)

### Dimensions/weight

PDS	Height 77" (195.6 cm)
	Depth 39" (99.1 cm)
	Width 24" (61.0 cm)
	1260 – 1860 lbs (571 – 844 kgs)

### General

Convection cooled
Hinged dead-front panels
Casters and leveling feet
Top & bottom entry/bottom exit only
Hi-res LCD display with ethernet

### Options

Isolated ground
TCM, BCM and SFCM
Surge protective device (SPD)
Floor stand

### Standards

ETL listed to UL 60950 and UL 891; cETLusto 60950
NEMA
FCC part 15 compliant

\*Other configurations available as non-standard

For more information please contact:

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