Cyberex[®] Power Distribution Unit (PDU) Power distribution system

Data centers are the essential ingredients that enable individual businesses to have an electronic presence on the Internet. Reliable uninterrupted power is critical to the mission of any organization's data center.

At Cyberex we have embraced the challenge to develop solutions to meet individual needs of the modern data center while maintaining our heritage of offering the highest reliability on the market today.

The Cyberex PDU offers the most reliable and flexible power distribution product on the market today with almost unlimited configurations of panelboards, sub-feed breakers to meet every load requirement. Three cabinet designs support ratings up to 500kVA.

Our circuit management of products provides solutions to monitor and manage any combination of individual branch circuits or sub-feeds from a single hardware platform.

The flexibility of the Cyberex PDU benefits the system designer, the installer and the owner. If one of our countless standard configurations doesn't meet your application's needs Cyberex is a master at customization. Our engineering staff stands ready to create just what you need.

Designed for performance and flexibility

Product features

- Multiple panelboard and breaker configurations offer the highest level of customization for diverse loads
- Comprehensive system monitoring provides ultimate flexibility for collecting and managing power data
- Optional safety barrier to separate primary and secondary voltages
- Branch circuit and sub-feed management (optional) provides enhanced power data collection for branch circuits and sub-feeds
- Remote monitoring interfaces to building management system using Modbus, web server, and SNMP traps
- PDU with 320 x 240 high resolution display capable of monitoring and storing data from up to 16 local or remote circuit management devices – each with up to 168 circuits



- Efficient high isolation, copper wound transformers increases performance and significantly reduce EMI and RFI noise
- Spacious cable management and landing area simplifies frequent wiring changes and ease of installation
- Easy maintenance access ensures safe and trouble-free repair in minimum time
- Compact footprint maximizes valuable floor space
- ETL listed to both UL 60950 and UL 891. Suitable for Installation inside or outside IT–Designated spaces
- Optional seismic rated floor stands available



Power and productivity for a better world™

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 panelboards (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 Modus 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

PDU product specifications

Electrical	
kVA	50-500kVA
Input	3-phase, 3-wire + ground
Input voltage	Up to 600V – 60Hz*
Output	3-phase 4-wire + around
Output voltage	208/120 VAC*
Transformor ratingo	
	Chanderd and TD 1 econor delta unio
Iransformer	electrostatic shielding
Transformar tomporatura rica	115°C (atd.) 150°C available
	115 C(Stu.) = 150 C available
Transformer compensation taps	(4) 2-1/2% FOBN, (2) 2-1/2% FOAN
Iransformer insulation	220°C (class R)
Neutral rating	200%
Operating conditions	
Temperature (operating)	0 to 40°C
Temperature (storage)	-40 to 60°C
Audible noise	Maximum: 50 dBA (up to 150kVA)
	55 dBA (151 to 300kVA)
	60 dBA (301 to 500kVA)
Dimensions	
PDI 50-225kVA and most 300k	-\/Δ
Height 77 //"	Depth 3/1" Width 3/1"
PDLL 200k//A dependent on tran	oformor option
FD0 S00kvA dependent on train	
	Depth 34 Width 46
PDU 350-500kVA	
Height 78"	Depth 38" Width 52"
Sidecars available in 3 widths	10" side-facing
	24" front and/or rear facing
	34" front and/or rear facing
Distribution options (50 – 300	kVA)
Side car is needed for more than	1 2 panelboards
I-line panel available	
Standard or 400A panelboards available	
Sub-feed breakers available: 100/150/225/400A	
ABB or Square D	
Distribution antiona (250 - 500 k)(A)	
Sub food brookers available: 100/150/225/400/6004	
ADD or Square D	
General	
Natural convection cooled	
Hinged dead-front panel	
320 x 240 LCD display	
Single point ground	
Top and bottom entry/exit	
Enhanced options	
Branch and sub-feed circuit mor	nitoring
Remote emergency power off (E	PO)
Surge protective device (SPD) - primary and secondary sides	
Floor stands	
Input junction box	
leolated around	
Standarda	
EIL listed to UL 60950 and UL 8	391; CETLUS to UL1CSA 60950
FCC compliant (part 15)	
*Other configurations available as non-standard	

*Other configurations available as non-standard

For more information please contact:

Thomas & Betts Power Solutions, LLC A Member of the ABB Group

Power Protection

5900 Eastport Boulevard Richmond, VA 23231-4453 USA Tel: +1 800 CYBEREX (292 3739) Fax: +1 804 236 4047

www.tnbpowersolutions.com/cyberex www.abb.com/ups



Power and productivity for a better world™

