

POWERDISTRIBUTION

PDM II SERIES



Datacenters have become the essential ingredient that allows businesses to grow and maintain a competitive advantage. Interestingly, as much as convergence has captivated the IT community, modern datacenters are as diverse as ever. Cyberex has embraced the challenge to develop solutions to meet the individual needs of the modern datacenter while maintaining our heritage of offering the highest reliability on the market today.

The Cyberex PDM II Series offers the most reliable and flexible power distribution product on the market today. Advanced monitoring features such as branch circuit monitoring (BCM) and sub-feed monitoring are factory installed or easily installed in the field. The physical design allows for easy installation and field upgradeable options.

MISSION CRITICAL POWER QUALITY

- **Multiple panelboard and breaker configurations** offer the highest level of customization for diverse loads.
- **Branch circuit monitoring** (optional) provides enhanced power data collection for each circuit.
- **Local Display Graphic LCD** with 320 x 240 resolution, capable of monitoring and storing data from up to 16 BCM devices – each with up to 4 – 42 pole panelboards.
- **Remote monitoring** minimizes the requirement for local management.
- **Spacious cable management** and landing area aid frequent wiring changes.
- **Highly configurable** with combinations of panelboards and subfeed breakers.

STANDARD PRODUCT SPECIFICATIONS

Electrical

kVA	50-300 kVA
Input	3 Phase, 3 Wire + Ground
Input Voltage	480 VAC @ 60 Hz*
Output	3 Phase, 4 Wire + Ground
Output Voltage	208/120 VAC*
Panelboards	Up to (6) 42 Circuit Output Panelboards
Transformer Ratings	K13 (Std.) • K4/K20 (Opt.)
Transformer	Copper, Delta-Wye, Electrostatic Shielding
Transformer Temperature Rise	150°C (Std.) • 115°C (Opt.)
Transformer Inrush	Normal (11X) and Low (5X)
Transformer Compensation Taps	(4) 2-1/2% FCBN, (2) 2-1/2% FCAN
Transformer Insulation	220°C (Class R)
Neutral Rating	200%

Operating Conditions

Temperature (Operating)	0 to 40°C • 37°C for 300 kVA
Temperature (Storage)	-40 to 60°C
Audible Noise	Maximum: 55 dBA
Maximum Operating Altitude	8,200 ft. (2,500 m)

Dimensions

Height (All Cabinets, Sidecars)	77.4"
Depth (All Cabinets, Sidecars)	34"
Width (Main Transformer Section)	34" or 46" Depending on kVA
Sidecars Available in 3 widths	10" Side-facing 24" Front and/or Rear facing 34" Front and/or Rear facing
Up to 3 Sidecars Allowed	
Up to 4 Panelboards Per Sidecar	(2 Front-facing and/or 2 Rear-facing)

Dimensions (continued)

6 Panelboards Maximum
I-line Panel Available
Standard, Column-width or 400A Panelboards Available
Subfeed Breakers Available: 100/150/225/400A

General

Natural Convection Cooled
Hinged Dead-Front Panel
320 x 240 LCD Display
Swivel Casters
Single Point Ground
Top and Bottom Entry
Welded Frame Construction on Main Transformer Cabinet

Options

Branch Circuit Monitoring
Subfeed and Branch Circuit Breakers w/wo Monitoring
Remote Emergency Power Off (EPO)
Transient Voltage Surge Suppression
Lightning Arrestor, Surge Arrestor
Floor Stands
Input Junction Box • Input Terminal Block

Standards

NEMA (All Applicable Standards)
ETL Listed to UL 60950 and UL 891
FCC Compliant (Part 15)

* other configurations available as non-standard



PRODUCT SPECIFICATIONS

Power Monitoring

Input Voltage Line to Line (True RMS)	S
Output Voltage Line to Line (True RMS)	S
Output Voltage Line to Neutral (True RMS)	S
Output Current (True RMS)	S
Neutral Current (True RMS)	S
Ground Current (True RMS)	S
kVA	S
kW	S
Frequency	S
Percent Load Per Phase	S
KWH Consumption	S
Power Factor Per Phase	S
Peak Demand	S (UC)
Total Harmonic Distortion (voltage and current)	S
Load Crest Factor	S
Load Power Factor	S
Percent of Full Load	S

Control

Emergency Power Off (EPO) Pushbutton	S
Remote EPO Pushbutton Compatible	S
4 Form C Output Alarm Contacts	S
4 Form C Input Contacts - User Configurable	S

Power Alarms

High Transformer Temperature	S
Shutdown-Transformer Temperature	S
High/Low Input Voltage	S (UC)
High Output Current	S (UC)

Annunciation

Horn	S
Acknowledge Pushbutton	S

Communications

Modbus RTU (RS-485)	S
Modbus TCP (Ethernet)	S

S = Standard
(UC) = User Configurable

POWER & SYSTEM MONITORING

Designed for mission critical power quality applications, power monitoring offers user-friendly interface, customizable screens and Modbus 485.

Branch Status				
Br. No	Br. Name	Current	Rating	Status
1	TNB	25 A	30 A	OC Alarm
2	TNB	25 A	30 A	OC Alarm
3	TNB	25 A	30 A	OC Alarm
4	TNB	25 A	30 A	OC Alarm
5	TNB	25 A	30 A	OC Alarm
6	TNB	25 A	30 A	OC Alarm

Panel Meter				
	Phase A	Phase B	Phase C	Total
kW:	70	70	70	210
kVA:	70	70	70	225
PF:	1	1	1	
kWh:	333	333	333	1000
Frequency:	60 Hz			

PDU Metering				
	Phase A	Phase B	Phase C	Total
kW:	70	70	70	210
kVA:	70	70	70	210
PF:	1	1	1	
KVAH	100	100	100	300
kWh:	333	333	333	1000

PDU Metering			
	Load	Crest Factor	Demand
Phase A:	75	1.5	
Phase B:	75	1.5	
Phase C:	75	1.5	
Total:	225		200
Frequency:	60 Hz		
Phase Sequence:	A B C		



Cyberex cables compliment any PDM configuration and are designed to mate with virtually any computer or peripheral device.

Features include:

- UL Listed and NEC Compliant
- NEMA, IEC, Russell & Stoll and Field Wire configurations
- Identification Labeling and optional colors



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