

POWERDISTRIBUTION

PDM SERIES



Today's data centers require the most technologically advanced support systems to ensure mission critical power quality. The Cyberex/United Power PDM Series provides the highest level of customization for equipment loads. Coupled with advanced monitoring of the system and individual circuits, the PDM Series is a key design element that increases uptime.

DESIGNED FOR PERFORMANCE AND FLEXIBILITY

- **Multiple panelboard and breaker configurations** offer the highest level of customization for diverse loads
- **Spacious cable management** and landing area aid frequent wiring changes
- **Comprehensive system monitoring** improves management and response time
- **Branch circuit monitoring** (optional) provides enhanced power data collection for each circuit
- **Remote monitoring** minimizes the requirement for local management
- **High isolation, copper wound transformers** increases performance and significantly reduce EMI and RFI noise
- **Compact footprint** maximizes valuable real estate
- **Easy maintenance access** and low Mean Time To Repair (MTTR) to minimize interruption

PRODUCT SPECIFICATIONS

Electrical

kVA	15-300kVA
Input	3 Phase, 3 Wire + Ground
Input Voltage	208/480/600V @ 60Hz
Output	3 Phase, 4 Wire + Ground
Output Voltage	208/120V 480/277V 600/347V @ 60Hz
Panelboards	Up to (6) 42 Circuit Output Panelboards
Transformer Ratings	K13 (Std.) K1/K9/K20/K30 (Opt.)
Transformer	Copper, Dual Electrostatic Shield
Transformer Temperature Rise	150°C (Std.) 80°C, 115°C (Opt.)
Transformer Compensation Taps	2 1/2% (4 x FCBN, 2 x FCAN)
Transformer Insulation	220°C
Neutral Rating	200%

Operating Conditions

Temperature (Operating)	0 to 40°C
Temperature (Storage)	-40 to 60°C
Audible Noise	Maximum: 60 dBA
Maximum Operating Altitude	8,200 ft (2,500 m)
Operating Efficiency	98%

Dimensions/Weight

Height	69 in (175 cm)
Depth	34 in (86 cm)
Width (PDM1/2)	34 in (86 cm)
(PDM3/4)	43.5 in (110 cm) Side Facing
(PDM5/6)	53 in (135 cm) Side Facing
Weight (PDM1/2)	935-1,200 lbs (426-545 kg)
(PDM3/4)	1,215-2,385 lbs (552-1,079 kg)
(PDM5/6)	1,555-2,725 lbs (707-1,233 kg)

General

Natural Convection Cooled
Hinged Dead-Front Panel
80 Character Display
Swivel Casters
Single Point Ground

Communications

Modbus 485

Options

Branch Circuit Monitoring
Subfeed and Branch Circuit Breakers w/wo Monitoring
Remote Emergency Power Off (EPO)
Harmonic Mitigating Transformers
Transient Voltage Surge Suppression
Lightning Arrestor
Sidecars (2 Max.) Front or Side Facing
Floor Stands
Input Junction Boxes

Standards

NEMA (All Applicable Standards)
UL 478 Listed
FCC Compliant (Part 15)
ANSI C62.41

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 (UP)
Percent Load Per Phase	S
KWH Consumption	S
Power Factor Per Phase	S
Peak Demand	S (UP)
Total Harmonic Distortion	O (UP)
Voltage Sag Monitor	O (UP)
Voltage Surge Monitor	O (UP)
Single Phase Transient Monitor	O (UP)
Three Phase Transient Monitor	O (UP)

Control

Emergency Power Off (EPO) Pushbutton	S
Remote EPO Pushbutton Compatible	S
HVAC Alarm/Shutdown	S
Building Alarm (Qty 4) Shutdown	O
Phase Rotation/Reversal Shutdown	O
Ground Fault Interrupt	O
Two (2) Aux. Control Outputs	S (UP)

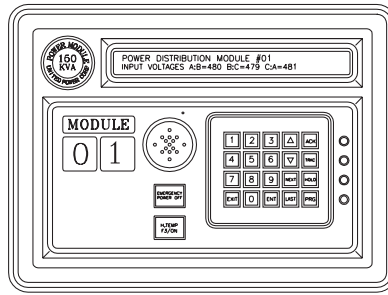
Power Alarms

High Temperature Transformer	S
Shutdown Temperature Transformer	S
High Input Voltage	S (UP)
Low Input Voltage	S (UP)
High Output Voltage	S (UP)
Low Output Voltage	S (UP)
Phase Loss	S
High Current	S
Ground Fault	S
Frequency	S
Phase Rotation	S
Summary	O

Annunciation

Horn	S
Acknowledge Pushbutton	S
Illuminated EPO Pushbutton	S (UP)
80-Character LCD Display	S (UP)

S = Standard O = Optional
(UP) = User Programmable



POWER & SYSTEM MONITORING

Designed for mission critical power quality applications, Focus Level 3 power monitoring offers user-friendly interface, customizable screens and Modbus 485.

MODEL NUMBER SCHEME

A – Panelboard Quantity*

1	1 Panelboard
2	2 Panelboards
3	3 Panelboards
4	4 Panelboards
5	5 Panelboards
6	6 Panelboards

B – KVA Rating

015	15kVA
030	30kVA
050	50kVA
075	75kVA
100	100kVA
125	125kVA
150	150kVA
200	200kVA
225	225kVA
300	300kVA

C – Transformer Type

K1	K Factor 1
K13	K Factor 13 (Std.)
K20	K Factor 20
K30	K Factor 30
PS2	Phase Shift 2 – Harmonic Cancellation
PS3	Phase Shift 3 – Harmonic Cancellation
PS4	Phase Shift 4 – Harmonic Cancellation

D – Input Voltage

2	208V
3	380V
4	480V
6	600V

E – Output Voltage

2	208/120V
3	380/220V
4	480/277V
6	600/347V

F – Frequency

5	50Hz
6	60Hz

Model Example:

PDM 4 - F3 - 150 - K13 4 2 6
A ** B C D E F

*Up to (4) 225A subfeed breakers can replace a panelboard position
**Focus Level 3 Monitoring is standard on PDMs



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

Features include:

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



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