



# UNITED POWER

## *Series PDM: Power Distribution Module*

### Features

#### General

- Flexible Distribution
- System Mobility
- Full System Tested
- Local Monitoring and Control
- Remote Monitoring Compatible
- One Year Warranty
- Quality Design and Construction
- UL 478 Listed

#### Electrical

- 15-300 kVA Systems
- 42-252 Pole Positions
- Single Point Ground
- High Isolation Characteristics
- High Operating Efficiency
- High K-Factor Systems Available

#### Physical

- Small Footprint
- Front Access Only
- Four Swivel Casters
- Four Stabilizing Feet
- 1/4 Turn Fasteners Throughout
- Natural Convection Cooled
- High-tech Aesthetics
- Quiet Operation

Today's data centers require the most technologically advanced support systems to ensure efficient operation while breeding maximum UPTIME. United Power has combined the critical elements of flexibility, mobility, expandability, single point grounding, common mode noise attenuation and a micro-processor based monitoring system into its Series PDM line of power distribution modules.

The United Power Series PDM family of power distribution modules employs

the electrical industry's highest quality components. Every system offers a main circuit breaker complete with shunt trip mechanism, our Guardian electrostatically shielded, high isolation transformer, and all copper busbars in our distribution panels. In addition to quality electrical components, United Power packages the system in a cabinet fulfilling the necessity of any data center: high-tech aesthetics, small footprint, quiet operation and front access only for service requirements.



Data processing facilities know that loss of power means lost data that can result in the loss of millions of dollars per minute. United Power fully understands the complex requirements of



critical power loads. We designed our Series PDMs to be the most intelligent solution for providing the most reliable and maintainable power distribution system offered today.

## Focus on the United Power Monitoring System

United Power offers three different monitoring systems on its Series PDM power distribution modules. Basic Level I is the fundamental monitoring package with Focus Levels II and III being microprocessor driven and compatible with all Focus central monitoring systems.

Monitoring Features			
Feature	Basic Level I	Focus Level II	Focus Level III
<b>Annunciation</b>			
Horn	S	S	S
Acknowledge Pushbutton	S	S	S
Illuminated EPO Pushbutton	S	S	S
80-Character LCD Display	N/A	S(UP)	S(UP)
<b>Power Alarms</b>			
High Temperature Transformer Alarm	S	S	S
Shutdown Temperature Transformer	S	S	S
High Input Voltage Alarm	N/A	S(UP)	S(UP)
Low Input Voltage Alarm	N/A	S(UP)	S(UP)
High Output Voltage Alarm	N/A	S(UP)	S(UP)
Low Output Voltage Alarm	N/A	S(UP)	S(UP)
Phase Loss Alarm	N/A	O	S
High Current Alarm	N/A	O	S
Ground Fault Alarm	N/A	O	S
Frequency Alarm	N/A	O	S
Phase Rotation Alarm	N/A	O	S
Summary Alarm	O	O	O
<b>Power Monitoring</b>			
Input Voltage Line to Line (RMS)	N/A	S	S
Output Voltage Line to Line (RMS)	N/A	S	S
Output Voltage Line to Neutral (RMS)	N/A	S	S
Output Current	N/A	O	S
Neutral Current	N/A	O	S
Ground Current	N/A	O	S
kVA	N/A	O	S
kW	N/A	O	S
Frequency	N/A	O(UP)	S(UP)
Percent Load Per Phase	N/A	O	S
KWH Consumption	N/A	N/A	S
Power Factor Per Phase	N/A	N/A	S
Peak Demand	N/A	N/A	S(UP)
Total Harmonic Distortion	N/A	N/A	O(UP)
Voltage Sag Monitor	N/A	N/A	O(UP)
Voltage Surge Monitor	N/A	N/A	O(UP)
Single Phase Transient Monitor	N/A	N/A	O(UP)
Three Phase Transient Monitor	N/A	N/A	O(UP)
<b>Control</b>			
Emergency Power Off Pushbutton	S	S	S
Remote EPO Pushbutton Compatible	S	S	S
HVAC Alarm/Shutdown	S	S	S
Building Alarm (qty 4) Shutdown	N/A	O	O
Phase Rotation/Reversal Shutdown	N/A	O	O
Ground Fault Interrupt	N/A	O	O
Two (2) Aux. Control Outputs	N/A	O(UP)	S(UP)
<b>Environmental</b>			
Time of Day	N/A	O(UP)	S(UP)
Date	N/A	O(UP)	S(UP)
Building Alarm Contact Closure/Opening	N/A	S(UP)	S(UP)
Temperature	N/A	O(UP)	O(UP)
Humidity	N/A	O(UP)	O(UP)

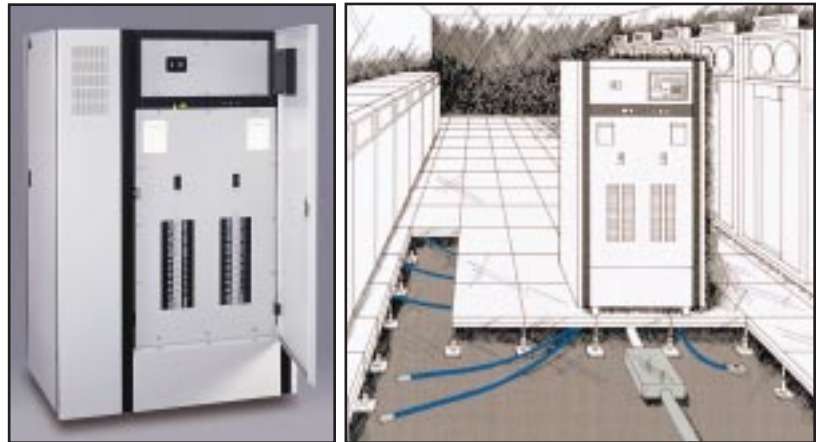
S = Standard O = Optional N/A = Not Available (UP) = User Programmable

## Physical Specifications: Series PDM Power Distribution Module

Cabinet	kVA	Pole Positions	Width		Depth		Height		Unit Weight	
			In	Cm	In	Cm	In	Cm	Lb	Kg
PDM1	15	42	27	68	27	68	62	157	475	215
	30	42	27	68	27	68	62	157	540	245
	50	42	27	68	27	68	62	157	600	272
PDM2	50	84	34	86	34	86	69	175	795	361
	75	84	34	86	34	86	69	175	935	426
	100	84	34	86	34	86	69	175	1,055	480
	125	84	34	86	34	86	69	175	1,200	545
	150	84	34	86	34	86	69	175	1,310	595
PDM3/4	50	126/168	43.5	110	34	86	69	175	1,075	489
	75	126/168	43.5	110	34	86	69	175	1,215	552
	100	126/168	43.5	110	34	86	69	175	1,335	607
	125	126/168	43.5	110	34	86	69	175	1,480	673
	150	126/168	43.5	110	34	86	69	175	1,590	723
	200	126/168	43.5	110	34	86	69	175	1,840	836
PDM5/6	50	210/252	53	135	34	86	69	175	1,415	643
	75	210/252	53	135	34	86	69	175	1,555	707
	100	210/252	53	135	34	86	69	175	1,675	761
	125	210/252	53	135	34	86	69	175	1,820	827
	150	210/252	53	135	34	86	69	175	1,930	877
	200	210/252	53	153	34	86	69	175	2,180	991
225	210/252	53	135	34	86	69	175	2,275	1,034	
300	210/252	53	135	34	86	69	175	2,725	1,233	

## Expandability Makes United Power's PDMs Invaluable

Series PDM can grow with you by adding up to two, field installable, 9.5" distribution expansion cabinets. This feature expands your distribution capacity from 84 to up to 252 circuit breaker pole positions. The PDM shown below can contain either 168 pole positions or 126 pole positions and up to four 3-pole subfeed circuit breakers for feeding 60/415 Hz frequency converters or 9027 power cooling/distribution units for IBM ES/9000 mainframe computer systems.



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**DELTA**

Product information is subject to change as warranted by manufacturing or engineering processes. United Power reserves the right to make changes, additions or deletions in equipment design and/or components. PDM 2PG 11/98-15K