

POWER RIDE 4-HYBRID

Three Phase, 10-500 kVA
(8 to 400 kW)

office buildings • factories • warehouses
hospitals • hotels • motels • schools • universities
shopping centers • airports • casinos • supermarkets
military installations • apartment buildings
train and bus terminals • houses of worship

EMERGENCY
LIGHTING
INVERTERS

208Y/120 or 480/277 VAC

Modular Design, Front Access

Listed to UL924 & UL1778 Standards

Hybrid Fast Transfer Green Mode - 98% Efficiency

Online Continuous Mode - 94% Efficiency (Typical)



POWER RIDE 4 *Electronic Cabinet*

ON-LINE //
FAST TRANSFER

Power Ride 4 is a state-of-the-art inverter engineered to provide dependable and uninterrupted power in critical scenarios. This advanced system offers automatic self-testing, true galvanic isolation, and redundant multi-CPU design, ensuring reliable performance. With intelligent battery management and efficient heat dissipation, it's the ultimate choice for critical power applications.

STANDARD FEATURES

◆ Multiple Design Configurations

Can be configured as dual conversion online system or fast transfer standby system.

◆ True Galvanic Isolation Design

The ultimate UPS solution – providing uninterrupted power and protection against noise, lightning and leakage current.

◆ Designed to Protect Against a Floating Neutral

Ensures the safety of personnel and UPS.

◆ Advanced Digital Signal Processing

Increased reliability and efficiency through the use of DSP, IGBT and advanced switching components.

◆ Modular Design for Ease of Troubleshooting and Maintenance

Quick change components speed repairs and cut down time.

◆ The Most Intelligent and Safe Battery Test Circuitry Available Today

- No risk of AC output failure during test of failed batteries
- Maximizes battery bank protection when leakage or a ground fault is present

◆ Individualized Inverter Support on Each Phase

Maintains specified characteristics, even with 100% unbalanced load.

◆ Hi-Tech Fan Speed Control

Increases fan life expectancy while reducing audible noise.

◆ Optimum Design for Heat Dissipation

The control and power circuits are separated to reduce operating temperature for high reliability under adverse operating conditions.

◆ Battery Power Start Feature

The unit can be started with or without the AC mains using battery power alone eliminating large surge currents.

OPTIONAL ACCESSORIES:

- Remote Control Panel
- 3-Phase PC Monitoring Software
- Battery Monitoring module
- 3-Phase SNMP card
- Input Harmonic Filter – reduces T.H.D. (Total Harmonic Distortion) of the input current
- Customizable backup time of 120 minutes or more
- 12 Pulse up to 60 kVA to reduce Harmonic in the input side for facility
- Thermal Runaway Control (IFC 1206.2)

TECHNICAL SPECIFICATIONS

POWER RIDE 4-HYBRID

EMERGENCY
LIGHTING
INVERTERS

Power Rating: 8, 16, 24, 32, 40, 48, 64, 80, 96, 128, 160, 192, 240, 320, and 400kW

Input Voltage: 208Y/120V or 480Y/277 VAC (-15% to +15%)

Output Voltage: 208Y/120V or 480Y/277 VAC

Output Frequency (Inverter Operation): 60Hz \pm 7Hz

Voltage Regulation: \pm 1% at 100% unbalanced load

Output Voltage Wave Form: Sinusoidal < 2% THD

Crest Factor: 3:1 Typical

Surge Protection: The UPS will protect itself and the load against surges as defined in ANSI/IEEE C62.41 Categories A and B.

Isolation: True galvanic isolated

Battery: Sealed, Maintenance-Free, VRLA Standard 10 Year

Recharge Time: Varies per KVA and conforms to UL924

Environmental:

Humidity: 0 - 90% (non-condensing)

Operating Temperature:

UPS: 0° to 40°C. (32° - 104°F)

Battery: 20° to 25°C. (68° - 77°F)

Higher temperature batteries are available for special order.

Storage Temperature: -20° to 70°C. (-4° to 158°F)

Electronics only.

Altitude: Up to 5,000 ft

Cabinet Size (UPS Only):

8-48kW: 34"W x 63"H x 31.5"D

64-200kW: 55.5"W x 63"H x 31.5"D

Battery Cabinet:

51"W x 70"H x 30.5"D

STANDARD FEATURES

- Capable to operate with Complete phase unbalance (Independent Phase Control Circuitry)
- Field Selectable Double Conversion or Green Mode (Fast Transfer)
- Remote Status Panel Unit with Audible Alarm with Silence Switch
- Standard monitoring:
 - % Load Indicator
 - Phase rotation error
- 6-Pulse or 12-Pulse Controlled Rectifier (12-Pulse for 80 kVA & up)
- Input and Output Main Circuit Breakers
- Data and Events LCD Display
- Built-in Transient Voltage Surge Suppressor
- EMI Suppression
- PWM Methodology (DSP)
- Isolation Transformer at the output for True Galvanic Isolation
- Modular design to facilitate ease and speed of service
- Cold Start Function: UPS can be started with battery power only without an AC source
- Multi-CPU Design: Several CPUs are employed in the control circuit, and critical functions are designed with parallel redundancy for added reliability
- Protection Against Misuse: Circuit breaker on/off sensor and power supply sensor ensure that the user cannot cause UPS damage due to operator error
- Intelligent Battery Test
- Redundant Power Supply

OPTIONS

- RS-232 / RS-485 for various accessory
- Dry Contact Normally Open*
- Remote Control Panel UPSCAN™
- Software for PC monitoring UPSCAN™
- Delta Input
- Battery Monitoring module DCMAN™
- *Output Aux CB's (Up to 20 Positions)
- GMS 2: Remote Monitoring through LAN
- Wireless Battery Monitoring
- Event Logging up to 500 events
- Battery Cabinet Fan Exhaust
- Battery Cabinet Fan Exhaust Dry Contact
- 100% Unbalancing Load
- Long Life Batteries
- 20 Year Battery Warranty
- Hi-Temp Batteries up to 90 degrees
- Thermal Runaway Control (IFC 1206.2)

* Must select either Normally Open or Normally Closed not both.
Consult factory for more features and choices of remote communication.

KVA/ KW	INPUT - OUTPUT VOLTAGES	MODEL NUMBERS	DC Voltages	WEIGHTS (LBS) CABINETS	
				UPS	EACH BATTERY (#) OF CAB.
10/8	208/120 - 208/120 480/277 - 480/277	PD010B05ATT3 PD010H09ATT3	348	840 840	2430 (1)
20/16	208/120 - 208/120 480/277 - 480/277	PD020B05ATT3 PD020H09ATT3	348	1083 1083	3213 (1)
30/24	208/120 - 208/120 480/277 - 480/277	PD030B05ATT3 PD030H09ATT3	348	1260 1260	4361 (1)
40/32	208/120 - 208/120 480/277 - 480/277	PD040B05ATT3 PD040H09ATT3	348	1414 1414	3213 (2)
50/40	208/120 - 208/120 480/277 - 480/277	PD050B05ATT3 PD050H09ATT3	348	1525 1525	3427 (2)
60/48	208/120 - 208/120 480/277 - 480/277	PD060B05ATT3 PD060H09ATT3	348	1724 1724	3817 (2)
80/64	208/120 - 208/120 480/277 - 480/277	PD080B05ATT3 PD080H09ATT3	348	2276 2276	4565 (2)
100/80	208/120 - 208/120 480/277 - 480/277	PD100B05ATT3 PD100H09ATT3	348	2984 2984	4900 (3)
120/96	208/120 - 208/120 480/277 - 480/277	PD120B05ATT3 PD120H09ATT3	348	3138 3138	4900 (4)
160/128	208/120 - 208/120 480/277 - 480/277	PD160B05ATT3 PD160H09ATT3	348	3868 3868	5000 (4)
200/160	208/120 - 208/120 480/277 - 480/277	PD200B05ATT3 PD200H09ATT3	348	5746 5746	5000 (5)
*240/192	208/120 - 208/120 480/277 - 480/277	PD240B05ATT3 PD240H09ATT3	348	6229 6229	**
*300/240	208/120 - 208/120 480/277 - 480/277	PD300B05ATT3 PD300H09ATT3	348	7293 7293	**
*400/320	208/120 - 208/120 480/277 - 480/277	PD400B05ATT3 PD400H09ATT3	348	9061 9061	**
*500/400	208/120 - 208/120 480/277 - 480/277	PD500B05ATT3 PD500H09ATT3	348	10166 10166	**

* Units are available only upon request.

** Consult Factory.

Specifications are subject to change without prior notification.



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