

POWER RIDE 3

Three Phase, 8 to 50kW

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**

HID, Incandescent, Fluorescent, LED
Modular Design, Front Access, Small Footprint
Listed to UL924 Lighting and UL1778 Standards

STANDARD FEATURES

- ◆ Back-lit LCD Display for monitoring
- ◆ System pre-wired for optional Global Monitoring System (GMS)
- ◆ High Frequency PWM with Digital Signal Processing Technology
- ◆ Make Before Break Internal Maintenance Bypass Switch
- ◆ Main Input and Output Circuit Breaker
- ◆ Generator Compatible with Automatic Governor (Slew Rate 2Hz/sec.)
- ◆ Inverter Test Switch
- ◆ Battery Breaker
- ◆ Battery Management Software



KEY FEATURES:

- ◆ Fast Transfer, Standby, and Double Conversion "no-break" online system are available
- ◆ Efficiency: 94% Online / 98% Standby / Fast Transfer
- ◆ Automatic monthly and annual self-testing
- ◆ Latest technology microprocessor controlled electronics with PWM (Pulse Width Modulated) design for true Sine Wave output
- ◆ Continuous self-diagnostic and self-testing system
- ◆ LCD backlit panel for comprehensive monitoring of power line conditions and inverter status
- ◆ Sealed maintenance-free lead calcium batteries with 10 year prorated warranty
- ◆ Modular cabinet design for ease of installation, small footprint with shallow 18" depth, convenient front access.
- ◆ Optional Battery Tracker Monitoring System
- ◆ *Standard Warranty



Electronic Cabinet

POWER RIDE 3

**ON-LINE //
STAND-BY /FAST TRANSFER**

The Power Ride 3 incorporates state of the art technology with PWM (Pulse Width Modulated), double conversion design for emergency lighting applications. When utility power fails, the Inverter provides uninterrupted output power to the emergency lighting circuits in compliance with UL924 Life Safety Code for 90 minutes of egress illumination.

The Power Ride 3 is the best design solution for emergency lighting power for a wide range of commercial and industrial applications.

TECHNICAL SPECIFICATIONS

POWER RIDE 3

EMERGENCY
LIGHTING
INVERTERS

Power Rating: 8, 12, 16, 20, 24, 32, 40 and 50 KW (higher capacity available)

Input Voltage: 208Y/120 or 480Y/277 VAC (+10%/-15%)

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

Output Frequency (Inverter Operation): 60 Hz \pm 0.5 Hz

Voltage Regulation: \pm 3%, Regulated within CBEMA curve

Output Voltage Wave Form: Sine-Wave < 5% THD.

Efficiency: 94% Online / 98% Standby / Fast Transfer (Typical)

Power Factor: 0.8

Crest Factor: 3:1 Typical

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

Isolation: Complete from line. Output neutral bonded to ground

Noise Isolation: -120 dB Common-Mode; -60 dB Transverse-Mode

Battery: Sealed, Maintenance-Free, Lead-Acid VRLA (Standard) 10 year

Recharge Current: Conforms to UL924 Standards

External Battery: Provisions for hardwire connection of optional external battery cabinets or DC source.

Environmental:

Humidity: 0 - 95 RH w/ no condensation

Operating Temperature: UPS: 0° to 40°C. (32°-104°F)
Battery: 20° to 25°C. (68°-77°F)

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

Altitude: Up to 6,000 ft

Safety Agencies: Listed UL1778, UL924 Standards

Cabinet Sizes:

Standard Cabinet Layout:

Inverter cabinets: 39"W x 68"H x 18"D

Battery cabinets: 51"W x 70"H x 30.5"D

Standard Battery Back-up time is 90 minutes @ full load. Other back-up times are available - contact factory.

KVA/ KW	INPUT - OUTPUT VOLTAGES	MODEL NUMBERS	DC Voltages	TOTAL WEIGHTS (LBS)	
				INVERTER CABINET	(#) OF BATTERY CABINET
10/8	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PD010B05LHT3-VA PD010H09LHT3-VA PD010H05LHT3-VA	192	(1 Cabinet) 1083 lbs	39W x 68H x 18D (1 Cabinets) 1392 lbs
15/12	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PD015B05LHT3-VA PD015H09LHT3-VA PD015H05LHT3-VA	192	(1 Cabinet) 1446 lbs	51W x 70H x 30.5D (1 Cabinets) 3224 lbs
20/16	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PD020B05LHT3-VA PD020H09LHT3-VA PD020H05LHT3-VA	192	(1 Cabinet) 1679 lbs	51W x 70H x 30.5D (1 Cabinets) 3560 lbs
25/20	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PD025B05LHT3-VA PD025H09LHT3-VA PD025H05LHT3-VA	288	(1 Cabinet) 1679 lbs	51W x 70H x 30.5D (1 Cabinets) 4545 lbs
30/24	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PD030B05LHT3-VA PD030H09LHT3-VA PD030H05LHT3-VA	288	(1 Cabinet) 1719 lbs	51W x 70H x 30.5D (1 Cabinets) 4568 lbs
40/32	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PD040B05LHT3-VA PD040H09LHT3-VA PD040H05LHT3-VA	312	(1 Cabinet) 2066 lbs	51W x 70H x 30.5D (2 Cabinets) 8664 lbs
50/40	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PD050B05LHT3-VA PD050H09LHT3-VA PD050H05LHT3-VA	480	(1 Cabinet) 2463 lbs	51W x 70H x 30.5D (2 Cabinets) 8800 lbs
62/50	208Y/120 - 208Y/120 480Y/277 - 480Y/277 480Y/277 - 208Y/120	PD050B05LHT3 PD050H09LHT3 PD050H05LHT3	480	(1 Cabinet) 2565 lbs	51W x 70H x 30.5D (2 Cabinets) 12700 lbs

* Total Weights are approximate.
Specifications are subject to change without prior notification.

OPTIONS

- Secondary Auxiliary Circuit Breakers (up to 20 one-pole OCB's): Normally On, Normally Off, Normally Off w/ Delay, Trip Alarm
- Aux CB with Trip Indicator
- Dry Contact Normally Open
- Dry Contact Normally Open and/or Normally Closed
- Secondary Normally On/Off Terminal Block selection
- Remote Status Panel Unit with Audible Alarm with Silence Switch
- Input Current Harmonic Filter, 10% & 5% (This option will not be offered with Secondary Auxiliary Circuit Breakers)
- Make Before Break External Maintenance Bypass Switch (4 Pole)
- Main Input and/or Output Circuit Breaker (with custom KAIC)
- Battery Cabinet Fan Exhaust
- Battery Cabinet Fan Exhaust with Dry Contact
- Battery Thermal Runaway with Dry Contact
- Battery to Normal power, adjustable Time Delay
- External Attachable Panelboard (42 poles)
- EMI Filter
- Input Transient Voltage Surge Suppressor (TVSS)
- Delta Input (using External Transformer)
- Harmonic Tolerance (up to K-50)
- Battery Tracker: Wireless Battery Status Monitoring System
- Certified Zone 4 Seismic Bracket: Adds approx. 4" of additional floor space to each side of cabinet
- Extended Warranty and Service Parts
- Spare Parts Kits Available
- Monitoring via RS232 and RS485

Global Monitoring System (GMS)

- Provide SNMP MIB to monitor & log UPS status
- Auto-sense 10M/100M Fast Ethernet
- Manage & configure via Telnet, Web Browser or NMS
- Support TCP/IP, UDP, SNMP, TelNet, SNMP, PPP, HTTP, SMTP Protocol
- Sending both of SNMP TRAP and Email for events notifications.
- Auto email daily Battery Backup history report (configurable)
- Basic NetAgent: LAN or WIFI
- Advance NetAgent: LAN, WIFI, Dial-up Modem, or GPRS Modem



Consult Factory for more features and choices of remote communication.
Consult Factory for exact number of battery cabinets

