

PowerRide 3

Three Phase, 8 to 50 kW

HID, Incandescent, Fluorescent
Modular Design, Front Access, Small Footprint
U.L. Listed to UL924 Lighting and UL1778 UPS
Standard, by CSA

The PowerRide 3 incorporates state of the art technology with PWM (Pulse Width Modulated), double conversion design for emergency lighting applications. The PowerRide 3 is always online, eliminating noise, spikes, sags and brownouts. 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 PowerRide 3 is the best design solution for emergency lighting power for a wide range of commercial and industrial applications.

KEY FEATURES of the PowerRide:

- **Double Conversion, “no-break” online system powers all lamp types, including HID.**
- **Latest technology microprocessor controlled electronics with PWM (Pulse Width Modulated) design for true Sine Wave output.**
- **90% Efficiency**
- **Continuous self-diagnostic and self-testing system.**
- **LCD backlit panel for comprehensive monitoring of power line conditions and Inverter status.**
- **RS232 and RS485 Ports**
- **Optional remote monitoring, including the advanced Global Monitoring System (GMS)**
- **Sealed maintenance-free lead calcium batteries with 10 year prorated warranty.**
- **Battery Exerciser**
- **Modular cabinet design for ease of installation, small footprint with shallow 18” depth, convenient front access. Stackable with optional bracket.**
- **Generator Compatible**



Typical installations:

Office Buildings, Factories,
Warehouses, Hospitals, Hotels,
Motels, Schools, Universities,
Shopping Centers, Airports,
Casinos, Military Installations,
Apartment Buildings,
Supermarkets,
Train & Bus Terminals



STANDARD FEATURES

- **On-Line Central Lighting Inverter**
- **Back-lit LCD Display for monitoring**
- **RS 232 & RS 485 ports for metering, measuring and diagnostic.**
- **System pre-wired for optional Global Monitoring System (GMS)**
- **High Frequency PWM with Digital Signal Processing Technology**
- **Make Before Break Internal Maintenance Bypass Switch**
- **Input and Output Circuit Breaker**
- **Generator Compatible with Automatic Governor (Slew Rate 2Hz/sec.)**
- **Inverter Test Switch**
- **Battery Breaker**
- **Stackable Cabinets**
- **Battery Management Software**

PowerRide 3

- Power Rating:** 8, 12, 16, 20, 24, 32, 40, and 50 KW
Input Voltage: 208Y/120 or 480Y/277 VAC (-20% to +15%)
Output Voltages: 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 Wave Form: Sine-Wave < 5% THD.
Efficiency: Minimum 90%
Power Factor: Unity
Crest Factor: 3:1 Typical
Surge Protection: The inverter will protect itself and the load against surges as defined in ANSI/IEEE C62.41 Categories A and B.
Isolation: Complete from line. Output neutral bonded to ground
Noise Isolation: -120 dB Common-Mode; -60 dB Transverse-Mode
Battery: 10 year pro rated maintenance-free (AGM) battery
Recharge Current: Conforms to UL Standards
External Battery: Provisions for hardwire connection of optional external battery cabinets or DC source.
Environmental:
Humidity: 0 - 95% RH w/ no condensation
Operating Temp: UPS: 0° to 40°C. (32°-104°F)
 Battery: 20° to 25°C. (68°-77°F)
Storage Temp: -20° to 25°C. (-4° - 77°F)
Altitude: Up to 10,000 ft
Safety Agencies: CUL, CSA Listed UL1778, UL924
 * **Inverter Cabinet Sizes:** 39" Wide x 18" Deep x 68" High
 * **Battery Cabinet Sizes:** Consult Factory
 * Standard Battery Back-up time is 90 minutes @ full load. Other back-up times are available - contact factory.

KW	INPUT VOLTAGE	OUTPUT VOLTAGE	KVA PART # 0.8PF (QTY1)	(Qty) & Size of Battery Cab.	Weight (LBS)
8	208Y/120	208Y/120	PD010B05LHT3-VA	(1) 68"	2475
	480Y/277	480Y/277	PD010H09LHT3-VA		
12	208Y/120	208Y/120	PD015B05LHT3-VA	(2) 68"	4670
	480Y/277	480Y/277	PD015H09LHT3-VA		
16	208Y/120	208Y/120	PD020B05LHT3-VA	(2) 68"	5239
	480Y/277	480Y/277	PD020H09LHT3-VA		
20	208Y/120	208Y/120	PD025B05LHT3-VA	(2) 68"	6247
	480Y/277	480Y/277	PD025H09LHT3-VA		
24	208Y/120	208Y/120	PD030B05LHT3-VA	(2) 68"	6287
	480Y/277	480Y/277	PD030H09LHT3-VA		
32	208Y/120	208Y/120	PD040B05LHT3-VA	(3) 68" + (1) 48"	10730
	480Y/277	480Y/277	PD040H09LHT3-VA		
40	208Y/120	208Y/120	PD050B05LHT3-VA	(4) 68"	11263
	480Y/277	480Y/277	PD050H09LHT3-VA		
50	208Y/120	208Y/120	PD062B05LHT3-VA	(4) 68" + (1) 48"	15669
	480Y/277	480Y/277	PD062H09LHT3-VA		

OPTIONS

- Secondary Auxiliary Circuit Breakers (up to 12 one-pole OCB's): Normally On, Normally Off, Normally Off w/ Delay, Trip Alarm
- Form 'C' Contacts (5), (N.O.)
- Secondary Normally On/Off Terminal Block selection
- Remote Status Panel Unit with Audio Alarm and Silence Switch
- Local Audio Alarm with Silence Switch
- Input Current Harmonic Filter, 10% & 5% (This option will not be offer with Secondary Auxiliary Circuit Breakers)
- Make Before Break External Maintenance Bypass Switch
- Main Input and/or Output Circuit Breaker (with custom KAIC)
- Built-in Secondary Distribution
- External Attachable Panelboard (30-42 poles)
- EMI Filter
- Input Transient Voltage Surge Suppressor (TVSS)
- Harmonic Tolerance (up to K-50)
- Stackable Cabinet Rack to save floor space
- Certified Zone 4 Seismic Bracket
- Extended Warranty and Service Plans
- Spare Part Kits Available
- **Global Monitoring System (GMS)**

LOCAL

- Local PC via RS232 and RS485
- Event logging up to 500

REMOTE

- **Dial-up**
 - Voice (10 event logging), numeric pager
 - Voice, data, fax, pager, PC, e-mail, event logging up to 500
 - Voice, data, fax, pager, PC, e-mail, and measurement (500 event logging plus graphic)
- **Web/SNMP:** System status, measurement, alarm notification, event logging and password protected configuration.

Consult Factory for more features and choices of remote communication.



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