

PowerRide I

Single Phase, 2.1 to 17 kW

PowerRide 1 **On-Line**

PowerRide 1 **Stand-by / Fast Transfer**

HID, Incandescent, Fluorescent, LED

120, 208, 240, 277, or 480 Volts

Listed to UL924 Lighting and UL1778 UPS by CSA

The PowerRide I 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.

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**
- **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**
- **Single cabinet design for ease of installation, convenient front access**
- **Generator Compatible**
- **1 Year Warranty**



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

- 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)
- Battery Breaker
- Inverter Test Switch
- Generator Compatible with Automatic Governor (Slew Rate 2Hz/sec.)
- Battery Management Software
- High Frequency PWM with Digital Signal Processing Technology
- Built-in Input Power Factor Correction

PowerRide I



Power Rating: 2.1, 3, 5, 6, 7.5, 8, 10, 12.5, 15 & 17 kW

Input Voltage:

2.1 to 6, & 8 kW; 120, 208, 240, 277, or 480 VAC (-20% to +15%)
 7.5 to 17 kW; 208, 240, 277, or 480 VAC (-15% to +15%)
 120V - Special Order for 7.5 to 17 kW Units

Output Voltage: 120, 208, 240, 277, or 480 VAC

Output Frequency (Inverter Operation): 60Hz ±0.5Hz.

Voltage Regulation: ±3%

Output Wave Form: Sine-wave

Optional Input Protection: Input Circuit Breaker provided protection to the unit, load, and personnel and is rated at (10 KAIC) standard, higher interruption up to 65 (KAIC) optional.

Output Protection: Internal Electronic overload protection. Circuit breaker provides inherent over-load protection. Factory selectable voltage 120, 208, 240, 277, or 480 for input or output voltages. If input is different from output or output different from input, an internally mounted transformer is required.

Surge Protection: The inverter will protect itself and the load against surge as defined in ANSI/IEEE C62.45 category A and B.

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

Isolation: Output is completely isolated from input and with multi voltages when input & output is different.

Efficiency: 98% standby - fast transfer / 94% online

Power Factor: Unity

Crest Factor: 3:1

Battery : Sealed maintenance free (SMF).

Battery Management System: Utilizes a microprocessor technology to monitor the batteries critical levels and apply charging cycles in a method to substantially increase battery life.

Housing: Free standing NEMA 1 Enclosure powder coated paint Front access only Multiple conduit entries. Refer to chart for dimensions.

Recharge Time: Conforms to UL924

ENVIRONMENTAL:

Humidity: 0-95% RH w/no condensation

Operating temperature:

UPS: 0° to 40°C. (32° to 104°F)

BATTERY: 20° to 25°C (68° to 77°F)

Storage temperature: -20° to 25°C. (-4 to 77°F)

Safety Agencies: CSA Listed to UL 924, UL 924A, UL1778

KW	Input/Output Voltages	MODEL NUMBERS	DC Volts	Cabinet Size (W x H x D)	Wgts (lbs)
2.1	120/120	PD3.0A0100N1-VA	96	39" x 48" x 18"	826
	208/208	PD3.0B1300N1-VA			826
	240/240	PD3.0D0400N1-VA			826
	277/277	PD3.0R2500N1-VA			826
	120, 208, 240, 277, or 480	*PD3.0X5800T1-VA			896
3.0	120/120	PD3.0A0100N1	96	39" x 48" x 18"	996
	208/208	PD3.0B1300N1			996
	240/240	PD3.0D0400N1			996
	277/277	PD3.0R2500N1			996
	120, 208, 240, 277, or 480	*PD3.0X5800T1			1066
5.0	120/120	PD5.0A0100N1	120	39" x 68" x 18"	1214
	208/208	PD5.0B1300N1			1214
	240/240	PD5.0D0400N1			1214
	277/277	PD5.0R2500N1			1214
	120, 208, 240, 277, or 480	*PD5.0X5800T1			1284
6.0	120/120	PD6.0A0100N1	144	39" x 68" x 18"	1224
	208/208	PD6.0B1300N1			1224
	240/240	PD6.0D0400N1			1224
	277/277	PD6.0R2500N1			1224
	120, 208, 240, 277, or 480	*PD6.0X5800T1			1284
7.5	208/208	PD7.5B1300N1	120	51" x 70" x 30.5"	2190
	240/240	PD7.5D0400N1			2190
	277/277	PD7.5R2500N1			2190
	208, 240, 277, or 480	*PD7.5X5800T1			2350
	120/120	PD8.0A0100N1			192
208/208	PD8.0B1300N1	1289			
240/240	PD8.0D0400N1	1289			
277/277	PD8.0R2500N1	1289			
120, 208, 240, 277, or 480	*PD8.0X5800T1	1464			
10	208/208	PD010B1300N1	192	51" x 70" x 30.5"	2695
	240/240	PD010D0400N1			2695
	277/277	PD010R2500N1			2695
	208, 240, 277, or 480	*PD010X5800T1			2870
	208/208	PD012B1300N1			192
240/240	PD012D0400N1	3557			
277/277	PD012R2500N1	3557			
208, 240, 277, or 480	*PD012X5800T1	3777			
208/208	PD015B1300N1	240	51" x 70" x 30.5"	4172	
240/240	PD015D0400N1			4172	
277/277	PD015R2500N1			4172	
208, 240, 277, or 480	*PD015X5800T1			4512	
208/208	PD017B1300N1			240	51" x 70" x 30.5"
240/240	PD017D0400N1	4172			
277/277	PD017R2500N1	4172			
208, 240, 277, or 480	*PD017X5800T1	4512			

OPTIONS

- Secondary Auxiliary Circuit Breakers (up to 14 or 24 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
- Make Before Break Internal Maintenance Bypass Switch
- External Maintenance Bypass Switch (wrap around type)
- Main Input and/or Output Circuit Breaker (with custom KAIC)
- Built-in Secondary Distribution
- Input Transient Voltage Surge Suppressor (TVSS)
- Harmonic Tolerance (up to K-50)
- EMI Filter
- Certified Zone 4 Seismic Bracket
- Extended Warranty and Service Plans
- Long Life Battery

Optional 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, SNT, PPP, HTTP, SMTP Protocol
- Sending both of SNMP TRAP and Email for events notification.
- Auto email daily Battery Backup history report (configurable)
- Basic NetAgent: LAN or WIFI
- Advance NetAgent: LAN, WIFI, Dial-up Modem, or GPRS Modem



NEW!
 Ask about our new
Battery Tracker
 Battery Monitoring System

Consult Factory for more features and choices of remote communication. Specifications are subject to change without prior notification.



* Input Voltage X: A=120 (2.1 to 10 kW only), B=208, D=240, R=277, H=480 VAC
 Consult factory for 120V Input units and other power ratings.
 All units are 90 minutes Battery Back-up time @ full Load. For other back-up times (up to 6 hours), consult factory