

PowerRide I

Single Phase, 2.1 to 17 kW

HID, Incandescent, Fluorescent, LED
120, 208, 240, 277, or 480 Volts

U.L. Listed to UL924 Lighting and UL1778 UPS
Standard, by CSA

The PowerRide I incorporates state of the art technology with PWM (Pulse Width Modulated), double conversion design for emergency lighting applications.

The PowerRide 1 is available in both online, and standby models.

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 1 is the best design solution for emergency lighting power for a wide range of commercial and industrial applications.

KEY FEATURES of the PowerRide:

- Both Standby and Double Conversion, “no-break” online system are available
- 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
- Efficiency: 94% Online / 98% Standby
- 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
- 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

New Cabinet Size
5.25 - 17kW



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

TECHNICAL SPECIFICATIONS

Power Rating: 2.1, 3, 3.5, 5, 5.25, 7, 7.5, 8.8, 10, 10.5, 12.5, 14, 15, & 17 kW

Input Voltage: 2.1 to 5 kW; 120, 208, 240, 277, or 480 VAC (-20% to +15%)
5.25 to 17 kW; 208, 240, 277, or 480 VAC (-15% to +15%)

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: 94% online / 98% standby

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 | BTU/ Hr | Cabinet Size (W x H x D) | Wgts (lbs) |
|------|----------------------------|-------------------|----------|---------|--------------------------|------------|
| 2.1 | 120/120 | PD3.0A0100NI-VA | 96 | 859 | 39" x 48" x 18" | 826 |
| | 208/208 | PD3.0B1300NI-VA | | 859 | | 826 |
| | 240/240 | PD3.0D0400NI-VA | | 859 | | 826 |
| | 277/277 | PD3.0R2500NI-VA | | 859 | | 896 |
| | 120, 208, 240, 277, or 480 | *PD3.0X5800TI-VA | | 1166 | | 896 |
| 3.0 | 120/120 | PD3.0A0100NI | 96 | 1227 | 39" x 48" x 18" | 996 |
| | 208/208 | PD3.0B1300NI | | 1227 | | 996 |
| | 240/240 | PD3.0D0400NI | | 1227 | | 996 |
| | 277/277 | PD3.0R2500NI | | 1227 | | 996 |
| | 120, 208, 240, 277, or 480 | *PD3.0X5800TI | | 1433 | | 1066 |
| 3.5 | 120/120 | PD5.0A0100NI-VA | 120 | 1314 | 39" x 68" x 18" | 1101 |
| | 208/208 | PD5.0B1300NI-VA | | 1314 | | 1101 |
| | 240/240 | PD5.0D0400NI-VA | | 1314 | | 1101 |
| | 277/277 | PD5.0R2500NI-VA | | 1314 | | 1101 |
| | 120, 208, 240, 277, or 480 | *PD5.0X5800TI-VA | | 1433 | | 1171 |
| 5.0 | 120/120 | PD5.0A0100NI | 120 | 1875 | 39" x 68" x 18" | 1214 |
| | 208/208 | PD5.0B1300NI | | 1875 | | 1214 |
| | 240/240 | PD5.0D0400NI | | 1875 | | 1214 |
| | 277/277 | PD5.0R2500NI | | 1875 | | 1214 |
| | 120, 208, 240, 277, or 480 | *PD5.0X5800TI | | 2047 | | 1284 |
| 5.2 | 208/208 | PD7.5B1300NI-VA | 120 | 1973 | 51" x 70" x 30.5" | 1506 |
| | 240/240 | PD7.5D0400NI-VA | | 1973 | | 1506 |
| | 277/277 | PD7.5R2500NI-VA | | 1973 | | 1506 |
| | 208, 240, 277, or 480 | **PD7.5X5800TI-VA | | 2150 | | 1666 |
| | | | | | | |
| 7 | 208/208 | PD010B1300NI-VA | 192 | 2629 | 51" x 70" x 30.5" | 1867 |
| | 240/240 | PD010D0400NI-VA | | 2629 | | 1867 |
| | 277/277 | PD010R2500NI-VA | | 2629 | | 1867 |
| | 208, 240, 277, or 480 | *PD010X5800TI-VA | | 2866 | | 2042 |
| | | | | | | |
| 7.5 | 208/208 | PD7.5B1300NI | 120 | 2819 | 51" x 70" x 30.5" | 2190 |
| | 240/240 | PD7.5D0400NI | | 2819 | | 2190 |
| | 277/277 | PD7.5R2500NI | | 2819 | | 2190 |
| | 208, 240, 277, or 480 | *PD7.5X5800TI | | 3070 | | 2350 |
| | | | | | | |
| 8.8 | 208/208 | PD012B1300NI-VA | 192 | 3287 | 51" x 70" x 30.5" | 2352 |
| | 240/240 | PD012D0400NI-VA | | 3287 | | 2352 |
| | 277/277 | PD012R2500NI-VA | | 3287 | | 2352 |
| | 208, 240, 277, or 480 | *PD012X5800TI-VA | | 3583 | | 2572 |
| | | | | | | |
| 10 | 208/208 | PD010B1300NI | 192 | 3755 | 51" x 70" x 30.5" | 2695 |
| | 240/240 | PD010D0400NI | | 3755 | | 2695 |
| | 277/277 | PD010R2500NI | | 3755 | | 2695 |
| | 208, 240, 277, or 480 | *PD010X5800TI | | 4094 | | 2870 |
| | | | | | | |
| 10.5 | 208/208 | PD015B1300NI-VA | 240 | 3926 | 51" x 70" x 30.5" | 2792 |
| | 240/240 | PD015D0400NI-VA | | 3926 | | 2792 |
| | 277/277 | PD015R2500NI-VA | | 3926 | | 2792 |
| | 208, 240, 277, or 480 | *PD015X5800TI-VA | | 4299 | | 3132 |
| | | | | | | |
| 12.5 | 208/208 | PD012B1300NI | 192 | 4696 | 51" x 70" x 30.5" | 3557 |
| | 240/240 | PD012D0400NI | | 4696 | | 3557 |
| | 277/277 | PD012R2500NI | | 4696 | | 3557 |
| | 208, 240, 277, or 480 | *PD012X5800TI | | 5118 | | 3777 |
| | | | | | | |
| 14 | 208/208 | PD020B1300NI-VA | 240 | 5257 | 51" x 70" x 30.5" | 4172 |
| | 240/240 | PD020D0400NI-VA | | 5257 | | 4172 |
| | 277/277 | PD020R2500NI-VA | | 5257 | | 4172 |
| | 208, 240, 277, or 480 | *PD020X5800TI-VA | | 5732 | | 4512 |
| | | | | | | |
| 15.0 | 208/208 | PD015B1300NI | 240 | 5608 | 51" x 70" x 30.5" | 4172 |
| | 240/240 | PD015D0400NI | | 5608 | | 4172 |
| | 277/277 | PD015R2500NI | | 5608 | | 4172 |
| | 208, 240, 277, or 480 | *PD015X5800TI | | 6141 | | 4512 |
| | | | | | | |
| 17.0 | 208/208 | PD017B1300NI | 240 | 5608 | 51" x 70" x 30.5" | 4172 |
| | 240/240 | PD017D0400NI | | 5608 | | 4172 |
| | 277/277 | PD017R2500NI | | 5608 | | 4172 |
| | 208, 240, 277, or 480 | *PD017X5800TI | | 6141 | | 4512 |
| | | | | | | |

* 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.
For other back-up times (up to 6 hours), consult factory
All units are 90 minutes Battery Back-up time @ full Load.
Specifications are subject to change without prior notification.

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, SNTP, 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



Consult Factory for more features and choices of remote communication.

See Options sheet for additional available options.

