PowerRide I
Single Phase, 2.1 to 17kW

HID, Incandescent, Fluorescent, LED
120, 208, 240, 277, or 480 Volts
Listed to UL924 Lighting and UL1778 UPS by CSA

STANDARD FEATURES
◆ Back-lit LCD Display for monitoring
◆ System pre-wired for optional
  Global Monitoring System (GMS)
◆ Battery Breaker
◆ Inverter Test Switch
◆ Generator Compatible with
  Automatic Governor (Slew Rate 0.2Hz/sec.)
◆ Battery Management Software
◆ High Frequency PWM with Digital
  Signal Processing Technology
◆ Built-in Input Power Factor Correction

POWERRIDE I
ON-LINE //
STAND-BY/FAST TRANSFER

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 (Typical)
◆ 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
◆ Battery Exerciser
◆ Single Cabinet design for ease of installation, convenient front access
◆ 2 Year Warranty*

*Second Year, months 13 to 24 only valid with factory performed preventive maintenance

www.perfectpowersystems.com
TECHNICAL SPECIFICATIONS

**POWER RIDE I**

**Output Voltage** 
58: 120/240, 208, 240, 277, or 480 VAC

**Input Voltage**: 2.1 - 5KW, 6KW: 120, 208, 240, 277, or 480 VAC (-15% to +10%)

**Input Frequency**
7.5 - 17KW: 208, 240, 277, or 480 VAC (-15% to +10%)

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

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

**Voltage Regulation**: ±3% Typical

**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 VAC.

**Optional Input Protection**: Output Wave Form:

- 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.
- Internal Electronic overload protection. Circuit breaker provides inherent over-load protection. Factory selectable voltage 120, 208, 240, 277, or 480 VAC.
- Sine-wave

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

**Housing**: Free standing NEMA 1 Enclosure powdered 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 70˚C (-4 to 158˚F)

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

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**OPTIONS**

- Secondary Auxiliary Circuit Breakers (up to 16 or 24 one-pole OCB's): Normally On, Normally Off, Normally Off w/ Delay, Trip Alarm
- Dry Contact: With Single Common, N/O, N/C contacts with individual isolated Common
- Remote Status Panel Unit with Audio Alarm and Silence Switch
- Local Audio Alarm with Silence Switch
- Make Before Break Internal Maintenance Bypass Switch
- Extended Warranty and Service Plans
- Long Life Battery: Check with factory for number of cabinets
- Battery Monitoring System
- Event logging
- Monitoring via RS232 and RS485

**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

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**MODEL NUMBERS**

<table>
<thead>
<tr>
<th>KW</th>
<th>Input/Output Voltages</th>
<th>Model Numbers</th>
<th>DC Volts</th>
<th>Cabinet Size (W x H x D)</th>
<th>Wgts (lbs)</th>
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<tr>
<td>2.1</td>
<td>120/208, 240/240, 277/277, or 480</td>
<td>PD03.0A0100N1-VA</td>
<td>96</td>
<td>39” x 68” x 18”</td>
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</table>

*Input Voltage X: A=120 (2.1 - 6KW only), B=208, D=240, R=277, H=480 VAC

**Output Voltage**
58: 120/240, 208, 277, and 480 VAC

Consult factory for other power ratings.

All units are 90 minutes Battery Back-up time at Full Load.

For other back-ups (up to 6 hours), consult factory