

PowerRide I

Single Phase, 2.1 to 17 kW

HID, Incandescent, Fluorescent
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 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 1 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.
- 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
- 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

TECHNICAL SPECIFICATIONS

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

Input Voltage: 2.1 to 5 kW; 120, 208, 240, or 277 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: 90% minimum

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

Optional 51"W x 30.5"D x 70"H single cabinet available.

See Options sheet for additional available options.

See our website www.perfectpower-systems.com for part numbers.

All units are 90 minutes Battery Back-up time @ full Load.

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

Specifications are subject to change without prior notification.

KW	Input/Output Voltages	MODEL NUMBERS	DC Volts	BTU/ Hr	Cabinet Size UPS (Battery) (W x H x D)	Weights (lbs)	
						UPS	Battery
2.1	120/120 208/208 240/240 277/277 120, 208, 240, 277, or 480	PD3.0A0100N1-VA	96	859	39" x 48" x 18"	826	N/A
		PD3.0B1300N1-VA		859		826	
		PD3.0D0400N1-VA		859		826	
		PD3.0R2500N1-VA		859		826	
		*PD3.0X5800T1-VA		1166		896	
3.0	120/120 208/208 240/240 277/277 120, 208, 240, 277, or 480	PD3.0A0100N1	96	1227	39" x 48" x 18"	996	N/A
		PD3.0B1300N1		1227		996	
		PD3.0D0400N1		1227		996	
		PD3.0R2500N1		1227		996	
		*PD3.0X5800T1		1433		1066	
3.5	120/120 208/208 240/240 277/277 120, 208, 240, 277, or 480	PD5.0A0100N1-VA	120	1314	39" x 68" x 18"	1101	N/A
		PD5.0B1300N1-VA		1314		1101	
		PD5.0D0400N1-VA		1314		1101	
		PD5.0R2500N1-VA		1314		1101	
		*PD5.0X5800T1-VA		1433		1171	
5.0	120/120 208/208 240/240 277/277 120, 208, 240, 277, or 480	PD5.0A0100N1	120	1875	39" x 68" x 18"	1214	N/A
		PD5.0B1300N1		1875		1214	
		PD5.0D0400N1		1875		1214	
		PD5.0R2500N1		1875		1214	
		*PD5.0X5800T1		2047		1284	
5.2	208/208 240/240 277/277 208, 240, 277, or 480	PD7.5B1300N1-VA	120	1973	39" x 68" x 18"	1506	N/A
		PD7.5D0400N1-VA		1973		1506	
		PD7.5R2500N1-VA		1973		1506	
		**PD7.5X5800T1-VA		2150		1666	
7	208/208 240/240 277/277 208, 240, 277, or 480	PD010B1300N1-VA	192	2629	39" x 68" x 18" (39" x 68" x 18")	1080	787
		PD010D0400N1-VA		2629		1080	
		PD010R2500N1-VA		2629		1080	
		*PD010X5800T1-VA		2866		1255	
7.5	208/208 240/240 277/277 208, 240, 277, or 480	PD7.5B1300N1	120	2819	39" x 68" x 18" (39" x 68" x 18")	1224	966
		PD7.5D0400N1		2819		1224	
		PD7.5R2500N1		2819		1224	
		*PD7.5X5800T1		3070		1384	
8.8	208/208 240/240 277/277 208, 240, 277, or 480	PD012B1300N1-VA	192	3287	39" x 68" x 18" (39" x 68" x 18")	1305	1047
		PD012D0400N1-VA		3287		1305	
		PD012R2500N1-VA		3287		1305	
		*PD012X5800T1-VA		3583		1525	
10	208/208 240/240 277/277 208, 240, 277, or 480	PD010B1300N1	192	3755	39" x 68" x 18" (39" x 68" x 18")	1289	1406
		PD010D0400N1		3755		1289	
		PD010R2500N1		3755		1289	
		*PD010X5800T1		4094		1464	
10.5	208/208 240/240 277/277 208, 240, 277, or 480	PD015B1300N1-VA	240	3926	39" x 68" x 18" (39" x 68" x 18")	1545	1247
		PD015D0400N1-VA		3926		1545	
		PD015R2500N1-VA		3926		1545	
		*PD015X5800T1-VA		4299		1885	
12.5	208/208 240/240 277/277 208, 240, 277, or 480	PD012B1300N1	192	4696	39" x 68" x 18" (39" x 68" x 18")	1959	1598
		PD012D0400N1		4696		1959	
		PD012R2500N1		4696		1959	
		*PD012X5800T1		5118		2179	
14	208/208 240/240 277/277 208, 240, 277, or 480	PD020B1300N1-VA	240	5257	39" x 68" x 18" (39" x 68" x 18")	1999	2173
		PD020D0400N1-VA		5257		1999	
		PD020R2500N1-VA		5257		1999	
		*PD020X5800T1-VA		5732		2559	
15.0	208/208 240/240 277/277 208, 240, 277, or 480	PD015B1300N1	240	5608	39" x 68" x 18" (39" x 68" x 18")	1999	2173
		PD015D0400N1		5608		1999	
		PD015R2500N1		5608		1999	
		*PD015X5800T1		6141		2339	
17.0	208/208 240/240 277/277 208, 240, 277, or 480	PD020B1300N1-08	240	5608	39" x 68" x 18" (39" x 68" x 18")	1999	2173
		PD020D0400N1-08		5608		1999	
		PD020R2500N1-08		5608		1999	
		*PD020X5800T1-08		6141		2339	

* Input Voltage X: A=120 (2.1 to 5 KW only), B=208, D=240, R=277, H=480 VAC
All units are 90 minutes Battery Back-up time @ full Load.
For other back-up times (up to 6 hours), consult factory



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