HCAI Certified (Formerly OSHPD) POWER RIDE 4 Three Phase 8 to 400kW

SHAKER TABLE TESTED

EMERGENCY LIGHTING INVERTERS

208Y/120 or 480/277 VAC
Modular Design, Front Access
Listed to UL924 & UL1778 Standards
Hybrid Fast Transfer Green Mode - 98% Efficiency
Online Continuous Mode - 94% Efficiency (Typical)

STANDARD FEATURES

- **HCAI Compliant (Formerly OSHPD)**
- **Multiple Design Configurations**
  Can be configured as dual conversion online system or fast transfer standby system.
- **True Galvanic Isolation Design**
  The ultimate UPS solution – providing uninterrupted power and protection against noise, lightning and leakage current.
- **Designed to Protect Against a Floating Neutral**
  Ensures the safety of personnel and UPS.
- **Advanced Digital Signal Processing**
  Increased reliability and efficiency through the use of DSP, IGBT and advanced switching components.
- **Modular Design for Ease of Troubleshooting and Maintenance**
  Quick change components speed repairs and cut down time.
- **The Most Intelligent and Safe Battery Test Circuitry Available Today**
  - No risk of AC output failure during test of failed batteries
  - Maximizes battery bank protection when leakage or a ground a fault is present
- **Individualized Inverter Support on Each Phase**
  Maintains specified characteristics, even with 100% unbalanced load.
- **Hi-Tech Fan Speed Control**
  Increases fan life expectancy while reducing audible noise.
- **Optimum Design for Heat Dissipation**
  The control and power circuits are separated to reduce operating temperature for high reliability under adverse operating conditions.
- **Battery Power Start Feature**
  The unit can be started with or without the AC mains using battery power alone eliminating large surge currents.

SEISMIC CERTIFIED POWER RIDE 4

ON-LINE //
STAND-BY /FAST TRANSFER

Power Ride 4 is available from 8kW - 400kW. It supports all types of lighting including LED and HID. Available as a Fast Transfer unit under 2 milliseconds. The Power Ride 4 has met the highest standards of seismic testing. Shaker table testing is in accordance with ICC-ES-AC-156 to an SDS level of 1.6g. We also meet the requirement for CBC 2016, IBC 2015 and test criteria ICC-ES AC156. The Power Ride 4 is HCAI (formerly OSHPD) Certified OSP-0661.

OPTIONAL ACCESSORIES:

- Remote Status Panel
- 3-Phase PC Monitoring Software
- Battery Monitoring (String or Per Battery)
- 3-Phase SNMP card
- Input Harmonic Filter – reduces T.H.D. (Total Harmonic Distortion) of the input current
- Customizable backup time of 120 minutes or more
- 12 Pulse up to 60 kVA to reduce Harmonic in the input side for facility
- Thermal Runaway Control (IFC 1206.2)

PERFECT POWERSYSTEMS
LOS ANGELES, CA
Tel: 800-786-6915

TECHNICAL SPECIFICATIONS

HCAI CERTIFIED POWER RIDE 4

(Formerly OSHPD)

EMERGENCY LIGHTING INVERTERS

Power Rating: 8, 16, 24, 32, 40, 48, 64, 80, 96, 128, 160, 192, 240, 320, and 400kW

Input Voltage: 208Y/120V or 480Y/277 VAC (-15% to +15%)

Output Voltage: 208Y/120V or 480Y/277 VAC

Output Frequency (Inverter Operation): 60Hz ± 7Hz

Voltage Regulation: ±1% at 100% unbalanced load

Output Voltage Wave Form: Sinusodial < 2% THD

Crest Factor: 3:1 Typical

Surge Protection: The UPS will protect itself and the load against surges as defined in ANSI/IEEE C62.41 Categories A and B.

Isolation: True galvanic isolated

Battery: Sealed, Maintenance-Free, VRLA Standard 10 Year

Recharge Time: Varies per KVA and conforms to UL924

Environmental:

Humidity: 0 - 90% (non-condensing)

Operating Temperature:

UPS: 0˚ to 40˚C. (32˚ - 104˚F)

Battery: 20˚ to 25˚C. (68˚ - 77˚F)

Higher temperature batteries are available for special order.

Storage Temperature:

-20˚ to 70˚C. (-4˚ to 158˚F)

Electronics only.

Altitude: Up to 5,000 ft

Cabinet Size (UPS Only):

8-48kW: 40.75"W x 63"H x 31.5"D (Including brackets)

64-200kW: 62.5"W x 63"H x 31.5"D (Including brackets)

Battery Cabinet:

58.75"W x 70"H x 30.5"D (Including brackets)

KVA/ KW	INPUT - OUTPUT VOLTAGES	MODEL NUMBERS	UPS (LBS)	STANDARD (10YR)				LONG LIFE (20YR)				POWER MODE (BTU/HR)	
				90MIN		120MIN		90MIN		120MIN			
				QTY	LBS	QTY	LBS	QTY	LBS	QTY	LBS	UPS	GREEN
10/8	208/120 - 208/120 480/277 - 480/277	SV-PD010B05ATT3 SV-PD010H09ATT3	840	1	2430	1	2430	1	2975	1	2975	3374	1742
20/16	208/120 - 208/120 480/277 - 480/277	SV-PD020B05ATT3 SV-PD020H09ATT3	1083	1	3213	1	3416	1	3990	1	3990	6747	2873
30/24	208/120 - 208/120 480/277 - 480/277	SV-PD030B05ATT3 SV-PD030H09ATT3	1260	1	4361	1	4535	1	4135	1	5034	10120	4310
40/32	208/120 - 208/120 480/277 - 480/277	SV-PD040B05ATT3 SV-PD040H09ATT3	1414	2	3213	2	3416	1	5034	2	3990	12131	5747
50/40	208/120 - 208/120 480/277 - 480/277	SV-PD050B05ATT3 SV-PD050H09ATT3	1525	2	3427	2	3867	2	3990	2	4135	15164	5687
60/48	208/120 - 208/120 480/277 - 480/277	SV-PD060B05ATT3 SV-PD060H09ATT3	1724	2	3867	2	4923	2	4135	2	5034	18197	6824
*80/64	208/120 - 208/120 480/277 - 480/277	SV-PD080B05ATT3 SV-PD080H09ATT3	2276	2	4615	1 2	3707 4729	2	5034	3	5034	24263	9099
*100/80	208/120 - 208/120 480/277 - 480/277	SV-PD100B05ATT3 SV-PD100H09ATT3	2984	1 2	3707 4729	2 2	3416 4923	3	5034	3	5034	30329	11373
*120/96	208/120 - 208/120 480/277 - 480/277	SV-PD120B05ATT3 SV-PD120H09ATT3	3138	2 2	3416 4923	4	4923	3	5034	4	5034	32395	10130
160/128	208/120 - 208/120 480/277 - 480/277	SV-PD160B05ATT3 SV-PD160H09ATT3	3868	*	*	*	*	4	5060	5	5060	43193	13507
200/160	208/120 - 208/120 480/277 - 480/277	SV-PD200B05ATT3 SV-PD200H09ATT3	5746	*	*	*	*	5	5060	6	5060	53992	16884
240/192	208/120 - 208/120 480/277 - 480/277	SV-PD240B05ATT3 SV-PD240H09ATT3	6229	*	*	*	*	6	5060	*	*	64790	20206
300/240	208/120 - 208/120 480/277 - 480/277	SV-PD300B05ATT3 SV-PD300H09ATT3	7293	*	*	*	*	*	*	*	*	80988	25326
400/320	208/120 - 208/120 480/277 - 480/277	SV-PD400B05ATT3 SV-PD400H09ATT3	9061	*	*	*	*	*	*	*	*	94942	33768
500/400	208/120 - 208/120 480/277 - 480/277	SV-PD500B05ATT3 SV-PD500H09ATT3	10166	*	*	*	*	*	*	*	*	118678	42210

*64kW - Standard Battery (10Yr) 120min: 3 cabinets
*80kW - Standard Battery (10Yr) 90min: 3 cabinets, 120min: 4 cabinets
*96kW - Standard Battery (10Yr) 90min: 4 cabinets

*The approximation is worst case BTU output, measured during recharge following a discharge.

kW equates to real power. These units come in one capacity at 0.8 power factor. Example: 10kVA/8kW
Specifications are subject to change without prior notification.

STANDARD FEATURES

- Capable to operate with Complete phase unbalance (Independent Phase Control Circuitry)
- Field Selectable Double Conversion or Green Mode (Fast Transfer)
- Remote Status Panel Unit with Audible Alarm with Silence Switch
- Standard monitoring:
  - % Load Indicator
  - Phase rotation error
- 6-Pulse or 12-Pulse Controlled Rectifier (12-Pulse for 80 kVA & up)
- Input and Output Main Circuit Breakers
- Data and Events LCD Display
- Built-in Transient Voltage Surge Suppressor
- EMI Suppression
- PWM Methodology (DSP)
- Internal Maintenance Bypass Breakers
- Isolation Transformer at the output for True Galvanic Isolation
- Modular design to facilitate ease and speed of service
- Cold Start Function: UPS can be started with battery power only without an AC source
- Multi-CPU Design: Several CPUs are employed in the control circuit, and critical functions are designed with parallel redundancy for added reliability
- Protection Against Misuse: Circuit breaker on/off sensor and power supply sensor ensure that the user cannot cause UPS damage due to operator error
- Intelligent Battery Test
- Redundant Power Supply

OPTIONS

- RS-232 / RS-485 for various accessory
- Dry Contact Normally Open*
- Dry Contact Normally Closed*
- Remote Control Panel UPSCAN™
- Software for PC monitoring UPSCAN™
- Delta Input
- Battery Monitoring module DCMAN™
- *Output Aux CB's (Up to 20 Positions)
- WiFi Monitoring (GMS)
- Wireless Battery Monitoring
- Event Logging up to 500 events
- Battery Cabinet Fan Exhaust
- Battery Cabinet Fan Exhaust Dry Contact
- 100% Unbalancing Load
- Long Life Batteries
- 20 Year Battery Warranty
- Hi-Temp Batteries up to 90 degrees
- Thermal Runaway Control (IFC 1206.2)

** Must select either Normally Open or Normally Closed not both.*
Consult factory for more features and choices of remote communication.

PERFECT POWERSYSTEMS