

CRUCIAL POWER PRODUCTS

Seismic Certified to SDS Level 3.0g
Listed to CBC2016, IBC2015, AC156



SHAKER TABLE TESTED
Central Lighting Inverter

Wave Rider 1TM

Single Phase, 2.1 to 17KW

Wave Rider 3TM

Three Phase, 8 to 17KW

HCAI CERTIFIED

(Formerly OSHPD)

OSP No.: OSP-0499-10

Key Features:

- **HCAI Compliant (Formerly OSHPD)**
Certification OSP-0499
- **Listed to UL924 and UL1778 by CSA**
- **LCD Panel for Monitoring**
- **98% typ. Efficiency Fast Transfer**
- **94% typ. Efficiency Online**
- **Pulse Width Modulated (PWM)**
- **Generator Compatible with Auto Governor**
- **Double Conversion Technology**
- **Battery Exerciser**
- **Inverter Test Switch**
- **Global Monitoring System (optional)**
- **Battery Monitoring System (optional)**
- **2 Year Warranty* (optional)**

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

The Wave Rider 1 & 3 has met the highest standards of seismic testing. Shaker table testing is in accordance with ICC-ES-AC-156 to an SDS level of 3.0g. We also meet the requirement for CBC 2016, IBC 2015 and test criteria ICC-ES AC156. The Wave Rider 1 & 3 have also met the certification for HCAI (formerly OSHPD).

Wave Rider 1

This single phase unit is an on-line double conversion with many options available. This unit is available from 2.1-17kW. It will support ALL TYPES of lighting including LED and HID. The Wave Rider 1 is also available as a Fast Transfer.

Wave Rider 3

This 3 phase system is available from 8-50kW. It will support all types of lighting including LED and HID. The Wave Rider 3 is available as a Fast Transfer unit under 2 milliseconds or it can be On line.

HCAI Wave RiderTM 1 & 3 Specification

(Formerly OSHPD)

HCAI Certified Wave Rider 1

Shock and Vibration	MODEL NUMBERS						
	UNIT NAME	CAPACITY KW	INPUT VOLTAGES	OUTPUT VOLTAGES	TRANSFORMER	PHASE	
SV-	WR Wave Rider 1	3.0	3kW	B 208V	1300 208V	T Transformer (Different Input & Output Voltages)	
		5.0	6kW	D 240V	0400 240V		
		6.0	8kW	R 277V	2500 277V		
		8.0	10kW	H 480V	58A0 120/240V		
		010	12.5kW	Transformer	58B0 277/120V (50% Load)		
		015	15kW		58C0 480V		
		017	17kW		58D0 480/277V (50% Load)		

KW	WEIGHT	*CABINET SIZE (W" x H" x D")
3.0	1284 lbs	46 X 68 X 18
5.0	1284 lbs	46 X 68 X 18
6.0	1340 lbs	46 X 68 X 18
8.0	1795 lbs	58.75 X 70 X 30.5
10.0	2438 lbs	58.75 X 70 X 30.5
12.5	3681 lbs	58.75 X 70 X 30.5
15.0	3852 lbs	58.75 X 70 X 30.5
17.0	4512 lbs	58.75 X 70 X 30.5

* Cabinet includes Battery and total cabinet size includes seismic brackets on both sides.

Model Number Example: SV-WR3.0A0100N1

Single Phase Wave Rider 1,
3kW, 12V Input Voltage,
120 Output Voltage,
No Panelboard,
No Transformer

STANDARD FEATURES

- Back-lit LCD Display for monitoring
- Built-in Input Power Factor Correction (1Ø only)
- High Freq. PWM with Digital Signal Processing Tech
- Main Input and Output Circuit Breaker (3Ø only)
- Generator Compatible w/ Auto Governor (Slew Rate 2Hz/sec.)
- Inverter Test Switch and Battery Breaker
- Input Transient Voltage Surge Suppressor (TVSS) (3Ø only)
- Make Before Break Internal Maint. Bypass Switch (3Ø only)



Made in USA

(BAA & BABA Compliance)
Capable of meeting BAA & BABA requirements upon request!

OPTIONS

- Output Auxiliary Built in Distribution: Normally On, Normally Off, Normally Off with Time Delay
- Custom KAIC Main Input and/or Output Circuit Breaker
- Input Transient Voltage Surge Suppressor
- Fast Transfer
- External Wrap Around Maintenance Bypass Switch (This option cannot be ordered with Secondary Auxiliary Circuit Breakers), 4 Pole
- Dry Contact Normally Open
- Dry Contact "Form C" Normally Open and/or Normally Closed
- Battery Thermal Runaway
- Local Event Logger
- Long Life Battery (May change cabinet size)
- Remote Status Panel Unit with Audio Alarm and Silence Switch
- Local Audio Alarm with Silence Switch
- RS232 or RS485 for dedicated computer
- Global Monitoring System for remote computer with Event
- Log, Texting, and Email capability: SNMP, SNMP with GPRS, WIFI, Modem
- Extended Warranty and Service Plans
- Wireless Battery Monitoring System: Ability to monitor individual batteries including battery impedance
- Battery to normal power, adjustable time delay
- Main Input and Output Circuit Breaker (optional 1Ø, standard for 3Ø)
- Make Before Break Internal Maintenance Bypass Switch (optional 1Ø, standard for 3Ø)
- Touch Screen Local Event Logger (3Ø only)
- Battery Cabinet Fan Exhaust, option for Dry Contact (3Ø only)
- Delta Input (Using external transformer) (3Ø only)

HCAI Certified Wave Rider 3

Shock and Vibration	MODEL NUMBERS					
	UNIT NAME	CAPACITY (KW)	INPUT VOLTAGES	OUTPUT VOLTAGES	3 PHASE LH SERIES	
SV-	WR Wave Rider 3	010	8kW	B 208Y/120V	0500 208Y/120V	LHT3-VA KVA Rating
		015	12kW			
		020	16kW			
		025	20kW			
		030	24kW	H 480Y/277V	0900 480Y/277V	LHT3 KW Rating
		040	32kW			
		050	40kW			
		050	50kW			

Model Number Example: SV-WR015B09LHT3-VA

Three Phase Wave 3, 12kW,
208Y/120V Input Voltage, 480Y/277 Output Voltage

KW	Inverter Cabinet (W" x H" x D")		Battery Cabinet (W" x H" x D")		
	Cabinet Size *(Footprint)	Weight	Cabinet Size *(Footprint)	Qty.	Total Wgts.
8	39 x 68 x 18 (46 x 68 x 18)	1083 lbs.	39 x 68 x 18 (46 x 68 x 18)	1	1392 lbs.
12		1446 lbs.	51 x 70 x 30.5 (58.75 x 70 x 30.5)	1	3224 lbs.
16		1679 lbs.		1	3560 lbs.
20		1679 lbs.		1	4545 lbs.
24		1719 lbs.		1	4568 lbs.
32		2066 lbs.		2	8664 lbs.
40		2463 lbs.		2	8800 lbs.
50		2565 lbs.		2	12700 lbs.

* Foot Print includes seismic brackets on both sides.
Specifications are subject to change without prior notification.



Los Angeles, CA • Tel: (800) 244-4069
www.crucialpower.com
email: info@crucialpower.com

410-415-SV-DS-09-24