

Power Wave 1

Single Phase, 3 to 17 kW

*SHAKER TABLE TESTED AND HCAI CERTIFIED (FORMERLY OSHPD)

Need a seismic upgrade? Our *HCAI Certified (formerly OSHPD) cabinets will protect your inverter from seismic activity when mother nature calls. With full capabilities of the Power Wave 1 series, this emergency lighting inverter will keep your emergency lighting on when things get shaky.



Scan QR Code For the latest product news, technical specs, drawings, guides and manuals.

STANDARD FEATURES

*OSHPD

CERTIFIED

- 🎸 90 Minute Backup Design at Full Load
- 🎸 Listed to UL924 and UL1778 Standards
- Compatible with Self-Ballast Fluorescent, Incandescent, Halogen, Quartz Re-strike, HID, HPS and LED
- True Online, Double Conversion, Technology with <u>Zero Transfer Time</u>
- Pure Sine Wave
- High Frequency Pulse Width Modulation (PWM) for Conditioned Power to the Load
- TVSS Input Transient Voltage Surge Suppressor (Class C)

- Shaker Table Tested & Seismic Certified Enclosure
- HCAI Certified (Formerly OSHPD)
- Input Power Factor Correction and Full Voltage Regulation
- 🎸 Multiple Output Voltages
- Microprocessor Controlled LCD with Visual Status and Event Indicators
- Self-Testing and Battery Exerciser with LCD Display
- У DC Breakers for Ease of Maintenance

- Global Monitoring (GMS):
 - GMS 1: Local event Logger with Memory (PC Connections via RS232 and RS485) 500 Events
 - GMS 2: Remote Monitoring with Local Network Connection (WiFi, Ethernet or Modem)
 - GMS 3: Remote Monitoring with Cellular Network Connection
- Remote Status Panel
- Battery Monitoring (String or Per Battery)

- Dry Contacts Normally Open
- Form C Dry Contact with N/O or N/C Field Selectable for Desired Signal

OPTIONAL FEATURES

- Main Input & Output Circuit Breaker (UL489)
- Normally ON and/or Normally OFF Auxiliary Breakers (24 MAX)
- Custom Rated KAIC Breakers
- 65 KAIC Total System Short Circuit Current Rating
- Internal or External Maintenance Bypass Switch
- Seismic Bracket
- High Temperature Batteries
- Long Life Battery 20 Year Warranty
- Time Delayed Transfer to Battery
- Time Delayed Transfer from Battery
 - Maintenance:
 - Extended Warranty
 - Preventative Maintenance Plans



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SPECIFICATIONS

Power Wave 1

Single Phase, [‡]HCAI Certified 3 to 17 kW

*All units are 90 minutes battery backup time @ full load. Consult factory for backup times (up to 120 minutes). [‡] HCAI Certified (formerly OSHPD)

SAFETY STANDARDS

UL924, UL1778, NFPA101, NFPA70, NEMA, and ANSI Listed to UL924 and UL1778 by Standards

INPUT

AC Voltage: -15% / +10% Frequency: Slew rate of 0.4Hz/sec

OUTPUT

AC Voltage Regulation: ±3% 2 wires plus-ground for single voltage outputs, 3 wires plus-ground for dual voltage outputs Frequency: 60Hz ±0.5Hz Wave Form: Sinusoidal

Harmonic Distortion: < 5% THD; < 3% Single Harmonic

PROTECTION

Cabinet I

3kW to 8kW

Overload: 115% for 5 - 10 min, 125% for 30 sec

BATTERY

Battery: Sealed, maintenance free VRLA lead acid battery Recharge Time: Conforms to UL standards

NOISE ISOLATION

Common Mode: -120 dB Transverse Mode: -60 dB

ENVIRONMENT

Cabinet II

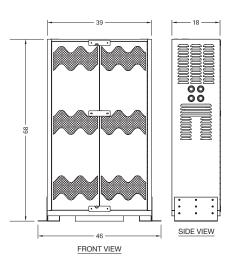
10 to 17kW

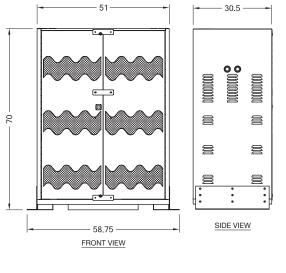
Operating Temp: 0° to 40°C (32° to 104°F) **Battery:** 20° to 25°C (68° - 77°F) **Electronic Storage Temp:** -20° to +45°C (-4° to 113°F) **Humidity:** 0 to 95% RH (non-condensation) **Altitude:** Up to 6,000 ft

Cabinet Dimensions

(Inches) Width x Height x Depth







BTU / Weight

Capacity (kW)

3.0

5.0

6.0

8.0

10

15

17

12.5

Model Numbers

Model number will be reflected on name plate, not designed for ordering or specifications.

Unit Name	Capacity (kW)		Inp	ut (Volts)	Output (Volts)		
SV-PW	3.0	3 kW	Α	120V	0100N1	120V	
Shock & Vibration Power Wave 1	5.0	5 kW	В	208V	1300N1	208V	
	6.0	6 kW	D	240V	0400N1	240V	
	8.0	8 kW	R	277V	2500N1	277V	
	010	10 kW	н	480V	*5800T1	120V/240V	
	012	12.5 kW				120V/277V	
	015	15 kW				277V/480V	
	017	17 kW				120V/240V/277V	

*5800T1 part number is reserved for dual voltage and multi voltage outputs.

We recommend 120V/240V for any 120V output needs. Provides the ability to feed two hots to a panel.

*Models with transformers will increase weight by 70lbs. **BTU ratings are based on worst case scenario, not steady state.

BTU/HR**

1066

1284

1284

1464

2870

3777

4512

4512



Standard warranty is eighteen (18) months from ship date or twelve (12) months from start up, whichever occurs first. Optional second year warranty with factory performed preventative maintenance available.





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1020

1524

1596

1833

2913

3657

5300

5800

ORDERING GUIDE

PROJECT NAME :

REP / DISTRIBUTOR :

ORDER NUMBER DOES NOT REFLECT MODEL NUMBER. PLEASE CONSULT FACTORY.

Power Wave 1 *OSHPD

Example: SV-PW-3.0-A02-S90-N08A40-FT-FC-GMS3-PM2

N08A40

ELECTRICAL DESIGNER / ENGINEER :

DATE :

SV-PW-

SV-PW 3.0 KW MODEL SERIES RATIN SV-PW: 3.0: 3k Power Wave 1 5.0: 5k *OSHPD 6.0: 6k *HCAI Certified 8.0: 8k (formerly OSHPD)

3.0		A	02	
KW RAT	ING		DLTAG PUT/C	
3.0:	3kW	IN	IPUT	C
5.0:	5kW	* A -	120V	0
6.0:	6kW	-	208V	0
	8kW	-	- 240V	0
8.0:	8KVV	R -	· 277V	0
010:	10kW	H-	- 480V	0
012:	12.5kW			0
015:	15kW			0
017:	17kW			** 0

PUT OUTPUT)1 - 120V 2 - 208V 3 - 240V **)4** - 277V)5 - 120V / 240V

06 - 277V / 480V **)7** - 120V / 277V **D8** - 120V / 208V / 277V

* 120V input only available up to 8 kW output.

** Consult factory for 3 voltage output systems.

BATTERY TYPE S90: Standard @ 90min

* L90: Long Life @ 90min H90: Hi Temp @ 90min U90: USA @ 90min S120: Standard @ 120min * **L120:** Long Life @ 120min H120: Hi Temp @ 120min U120: USA @ 120min

* Long Life 20 Yr. Pro Rata Battery.

S90



N 08 A 40

OUTPUT

N: Normally ON F: Normally OFF **FD: Normally OFF w/ Time Delay

BREAKERS

*01 - 24 (Max 24)

A	40
	AMP RATING***
	10, 15, 20, 25,
	30, 40, 50, 60
	STANDARD: 20 AMP

VOLTAGE A - 120V. 1P B - 208V. 2P C - 240V, 2P

D - 277V, 1P

E - 480V. 2P

* Only up to 24 poles.

** Allows you to have individual circuits remain on battery even when utility is restored for a period of time. Must be normally a OFF circuit. ***Consult factory for custom amp rating.

OPTIONS PICK ANY:

MB: Internal Maintenance Bypass EB: Ex. Maintenance Wraparound Bypass Switch SCCR: 65 KAIC Total System Short Circuit Current Rating IB: Input Breaker (UL 489) DS: Drip Shield Hood OB: Output Breaker (UL 489)

CL: Corbin Lock

FT + FC + GMS3

BATTERY OPTIONS

FC: Fast Charge (12 hrs or less) TR: Thermal Runaway Gassing Control without Battery Disconnect (IFC 1206.2)

MONITORING OPTIONS

C: Normally Open Dry Contacts DCT2: Dual, Open and Closed Dry Contacts A: Local Audible Alarm with Silencer Switch CP: RS 232 Connecting Port and RS 485 Connecting Port P: Remote Status Panel (Hard Wired with Extended Cable)

SYSTEM TRANSFER

FT: Fast Transfer with 2 Milliseconds TD(B): User Selectable Time Delay to Battery for Capacitor Discharge During EM (Standard 45 Milliseconds) TD(U): Time Delay Back to Utility During Power Restoration for Facility Inrush Reduction

BATTERY MONITORING SYSTEM (BMS)

PICK ONE:

SM: String Monitoring BM: Battery Monitoring BM-TS: Temperature Sensor

GLOBAL MONITORING SYSTEM (GMS) PICK ONE:

GMS 1: Local Accessible Event Logger with Unit Audible Alarm

GMS 2: Testing Logs with Remote Accessibility Through Local Network

GMS 3: Testing Logs with Remote Accessibility through Local Network and GPRS for Cellular Text Alerts

WARRANTY & SERVICES

PM2

PICK ANY:

Blank: Standard Onsite Startup and Warranty

ADDITIONAL:

EXT: Additional One Year Extended Warranty (Includes First Year Preventative Maintenance)

PM (2-3): Onsite Preventative Maintenance (Once Per Year, up to 3 Years)

T1: 4 Hour Training at Time of Start Up

T2: Additional Training day up to 8 hours

110-SV-OG-11-22



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Power Wave 3

Three Phase, 8 to 50 kW

*SHAKER TABLE TESTED AND HCAI CERTIFIED (FORMERLY OSHPD)

Need a seismic upgrade? Our *HCAI Certified (formerly OSHPD) Cabinets will protect your inverter from seismic activity when mother nature calls. With full capabilities of the Power Wave 3, this emergency lighting inverter will keep your emergency lighting on when things get shaky.



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STANDARD FEATURES

*OSHPD

CERTIFIED

- 🔮 90 Minute Backup Design at Full Load
- Listed to UL924 and UL1778 Standards
- 🔮 Compatible with Self-Ballast Fluorescent, Incandescent, Halogen, Quartz Re-strike, HID, HPS and LED
- 🔮 True Online Double Conversion Technology with Zero Transfer Time
- Pure Sinusoidal Waveform
- High Frequency Pulse Width Modulation (PWM) for Conditioned Power to the Load
- 父 Internal Maintenance Bypass

- Shaker Table Tested & Seismic Certified Enclosure
- HCAI Certified (Formerly OSHPD)
- 🔮 TVSS Input Transient Voltage Surge Suppressor (Class C)
- 🔮 Main Input & Output Breakers (UL 489)
- Microprocessor Controlled LCD with visual status and Event indicators
- Self-Testing and Battery Exerciser with LCD Display
- DC Breakers for Ease of Maintenance

- Global Monitoring (GMS):
 - GMS 1: Local event Logger with Memory (PC Connections via RS232 and RS485) 500 Events
 - GMS 2: Remote Monitoring with Local Network Connection (WiFi, Ethernet or Modem)
 - GMS 3: Remote Monitoring with **Cellular Network Connection**
- Remote Status Panel

- **OPTIONAL FEATURES**
- Battery Monitoring (String or Per Battery)
- Dry Contacts Normally Open
- Form C Dry Contact with N/O or N/C Field 📕 Long Life Battery 20 Year Warranty Selectable for Desired Signal
- Normally ON or Normally OFF Auxiliary Output Circuit Breakers (22 Max)
- **Custom Rated KAIC Breakers**
- 65 KAIC Total System Short Circuit Current Rating
- External Maintenance Bypass Switch
- Seismic Brackets
- Time Delayed Transfer to Battery
 - Time Delayed Transfer from Battery
 - Maintenance:
 - Extended Warranty
 - Preventative Maintenance Plans



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SPECIFICATIONS

Power Wave 3

Three Phase, [‡]HCAI Certified 8 to 50kW

*All units are 90 minutes battery backup time @ full load. Consult factory for backup times (up to 120 minutes). [‡] HCAI Certified (formerly OSHPD)

SAFETY STANDARDS

UL924, UL1778, NFPA101, NFPA70, NEMA, and ANSI Listed to UL924 and UL1778 by Standards

AC Voltage Regulation: +5% Regulated within CBEMA curve Wave Form: Sine Wave Harmonic Distortion: < 3% of THD Efficiency: Greater than 90%

AC Voltage: 208Y/120 or 480Y/277 VAC

Frequency: 60 Hz \pm 5% or 50 Hz \pm 5%

PROTECTION

INPUT

(-20% to +15%)

OUTPUT

Overload: 125% for 10 min, 150% surge for 10 sec

BATTERY

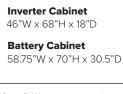
Battery: Sealed, Maintenance-Free VRLA Batteries (Standard) 10 Years Recharge Time: Conforms to UL standards

ENVIRONMENT (Electronics)

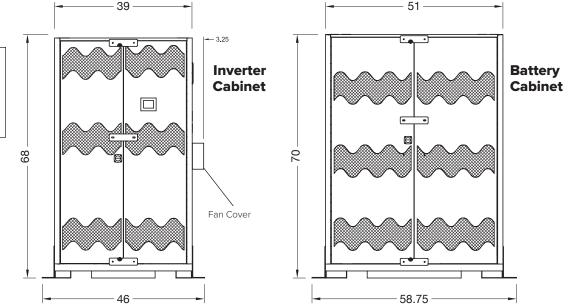
Operating: 0° to 40°C (32° to 104°F) Storage: -20° to +60°C. (-4° to 140°F) Humidity: 0% to 95% (non-condensation) Altitude: Up to 10,000 ft (3,048 meters) Audible Noise: 57 dBA

Cabinet Dimensions

(Inches) Width x Height x Depth



*90min 8kW uses inverter cabinet for battery cabinet without fan cover.



Model Numbers

Unit Name	Capa	Capacity (kVA/kW)		out (Volts)	Output (Volts)		
SV-PW	010	10/8	В	208Y/120	05	480Y/277	
Shock & Vibration	015	15/12	н	480Y/277	09	208Y/120	
02 03 04	020	20/16					
	025	25/20					
	030	30/24					
	040	40/32					
	050	50/40					
	062	62/50					

DI	U / Wei	gnt	90 MIN	(LB	S)		120 мін	I (LI	BS)	
Capac	ity (kVA/kW):	Cabinets	INVERTER	#	BATTERY	#	INVERTER	#	BATTERY	#
010	10/8		1083	1	1392	1	1085	1	1552	1
015	15/12		1446	1	3224	1	1446	1	2112	1
020	20/16		1679	1	3560	1	1679	1	3104	1
025	25/20		1679	1	4545	1	1679	1	3504	1
030	30/24		1719	1	4568	1	1719	1	4656	2
040	40/32		2066	1	8664	2	2066	1	5148	2
050	50/40		2463	1	8800	2	2463	1	7760	2
062	62/50		2565	1	12700	2	2565	1	8760	

Approximately 3000 BTU's per hour for every 10 kilowatts. The approximation is worst case BTU output, measured during recharge following a discharge.

KW equates to real power.

Warranty

Standard warranty is eighteen (18) months from ship date or twelve (12) months from start up, whichever occurs first.





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ORDERING GUIDE

OUTPUT

N: Normally ON

F: Normally OFF

w/ Time Delay

BREAKERS

*01 - 22 (Max 22)

* Only up to 22 poles.

normally a OFF circuit.

**FD: Normally OFF

AUX BREAKERS (UL1077)

AUX BREAKERS EXAMPLE

N 08 A 40

** Allows you to have individual circuits remain on battery

even when utility is restored for a period of time. Must be

***Consult factory for custom amp rating.

AMP RATING**

10, 15, 20, 25,

30, 40, 50, 60

STANDARD: 20 AMP

VOLTAGE

A - 120V, 1P

B - 208V. 2P

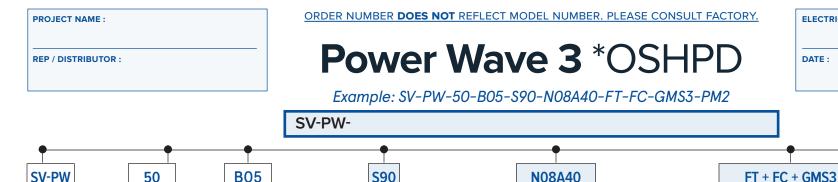
C - 240V, 2P

D - 277V. 1P

E - 480V, 2P

F - 208Y/120, 3P

G - 480Y/277, 3P



BATTERY TYPE

S90: Standard @ 90min

* L90: Long Life @ 90 min

H90: Hi Temp @ 90 min

S120: Standard @ 120min

* **L120:** Long Life @ 120 min

H120: Hi Temp @ 120 min

*Long Life 20 Yr. Pro Rata Battery.

U120: USA @ 120 min

U90: USA @ 90 min

ELECTRICAL DESIGNER / ENGINEER :

DATE :

PM2

WARRANTY & SERVICES

PICK ANY:

Blank: Standard Onsite Startup and Warranty

ADDITIONAL:

EXT: Additional One Year Extended Warranty (Includes First Year Preventative Maintenance)

PM (2-3): Onsite Preventative Maintenance (Once Per Year, up to 3 Years)

T1: 4 Hour Training at Time of Start Up

T2: Additional Training day up to 8 hours

FT: Fast Transfer with 2 Milliseconds for Capacitor Discharge During EM (Standard 45

SM: String Monitoring BM: Battery Monitoring **BM-TS:** Temperature Sensor

X: Seismic Mounting EB: Ex. Maintenance Wraparound Bypass Switch SCCR: 65 KAIC Total System Short Circuit Current Rating DS: Drip Shield Hood CL: Corbin Lock

BATTERY OPTIONS

OPTIONS

PICK ANY:

FC: Fast Charge (12 hrs or less) TR: Thermal Runaway Gassing Control without Battery Disconnect (IFC 1206.2)

MONITORING OPTIONS

C: Normally Open Dry Contacts DCT2: Dual, Open and Closed Dry Contacts A: Local Audible Alarm with Silencer Switch CP: RS 232 Connecting Port P: Remote Status Panel (Hard Wired with Extended Cable)

SYSTEM TRANSFER

TD(B): User Selectable Time Delay to Battery Milliseconds) TD(U): User Selectable Time Delay Back to Utility During Power Restoration for Facility Inrush

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GMS 2: Testing Logs with Remote Accessibility Through Local Network

GMS 3: Testing Logs with Remote Accessibility through Local Network and GPRS for Cellular Text Alerts



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115-SV-OG-11-22

KW RATING 08: 8kW

VOLTAGE

INPUT

B - 208Y/120

INPUT/OUTPUT

H - 480Y/277 09 - 480Y/277

*Input 'B' not compatible with Output '09'

OUTPUT

05 - 208Y/120

Power Wave 3 *OSHPD

*HCAI Certified (formerly OSHPD)

MODEL

SERIES

PW:

20: 20kW 24: 24kW 32: 32kW 40: 40kW 50: 50kW



16: 16kW