



# Power Wave 1

Single Phase, 2.1 to 17kW



## POWERFUL SINGLE PHASE SOLUTION

Looking for a high capacity, single enclosure, lighting inverter? The Power Wave 1 is our most compatible inverter to power almost all emergency lighting needs. A solution that is always on and always monitored. Power Wave 1 monitors not only utility power but also the internal system.



### Scan QR Code

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

## STANDARD FEATURES

- ✓ 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 Sine Wave
- ✓ TVSS Input Transient Voltage Surge Suppressor (Class C)
- ✓ High Frequency Pulse Width Modulation (PWM) for Conditioned Power to the Load
- ✓ 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
- ✓ DC Breakers for Ease of Maintenance

## OPTIONAL FEATURES

- 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
- Main Input & Output Circuit Breaker (UL489)
- Normally ON and/or Normally OFF Auxiliary Breakers (12 or 24 MAX) (DEPENDING ON CABINET SIZE)
- Custom Rated KAIC Breakers
- 65 KAIC Total System Short Circuit Current Rating
- Thermal Runaway Control
- 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



# SPECIFICATIONS

## Power Wave 1

Single Phase  
2.1 to 17kW

\*All units are 90 minutes battery backup time @ full load.  
Consult factory for backup times (up to 120 minutes)

### SAFETY STANDARDS

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

### INPUT

**AC Voltage:** -15% / +10%  
**Frequency:** Slew rate of 0.2Hz/sec

### OUTPUT

**AC Voltage Regulation:** ±5%,  
2 wires plus-ground for single voltage outputs,  
3 wires plus-ground for dual voltage outputs

**Wave Form:** Sinusoidal

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

### PROTECTION

**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

**Operating Temp:** 0° to 40°C (32° - 104°F)  
**Battery:** 20° to 25°C (68° - 77°F)  
**Electronic Storage Temp:** -20° to 70°C. (-4° - 158°F)  
**Humidity:** 0% to 95% (non-condensation)  
**Altitude:** Up to 10,000 ft

## Cabinet Dimensions

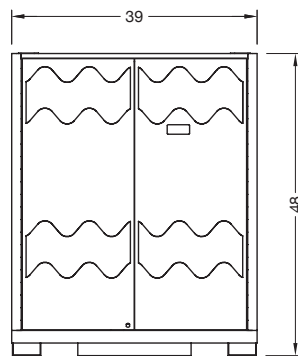
(Inches) Width x Height x Depth

<b>Cabinet I</b> 39"W x 48"H x 18"D
<b>Cabinet II</b> 39"W x 68"H x 18"D
<b>Cabinet III</b> 51"W x 70"H x 30.5"D

\*120min 17kW units require two Cabinet III's.

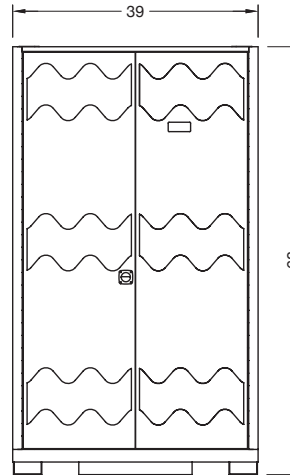
### Cabinet I

90min: 2.1 to 3kW



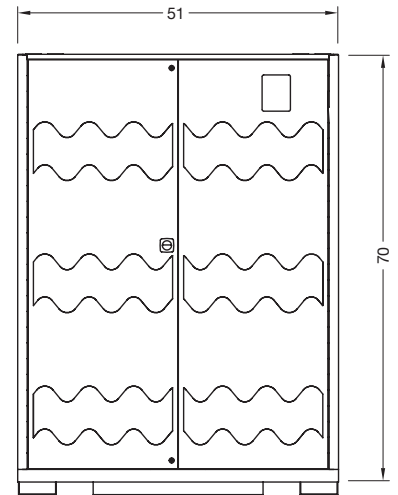
### Cabinet II

90min: 3 to 8kW  
120min: 3 to 5kW



### Cabinet III

90min: 10 to 17kW  
\*120min: 6 to 15kW



## Model Numbers

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

Unit Name	Capacity (kW)	Input (Volts)	Output (Volts)
PW Power Wave 1	<b>2.1</b>	2.1kW	<b>A</b> 120V
	<b>3.0</b>	3kW	<b>B</b> 208V
	<b>5.0</b>	5kW	<b>D</b> 240V
	<b>6.0</b>	6kW	<b>R</b> 277V
	<b>8.0</b>	8kW	<b>H</b> 480V
	<b>010</b>	10kW	<b>0100N1</b>
	<b>012</b>	12.5kW	<b>1300N1</b>
	<b>015</b>	15kW	<b>0400N1</b>
<b>017</b>	17kW	<b>2500N1</b>	
		<b>*5800T1</b>	120V/240V
			120V/277V
			277V/480V
			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.

## BTU / Weight

Capacity (kW)	*Weight (LBs)	
	90min	120min
<b>2.1</b>	826	982
<b>3.0</b>	1066	1020
<b>5.0</b>	1284	1524
<b>6.0</b>	1284	1596
<b>8.0</b>	1464	1833
<b>10</b>	2870	2913
<b>12.5</b>	3777	3657
<b>15</b>	4512	5300
<b>17</b>	4512	5800

Approximately 1000 BTU's per hour for every 3 kilowatts. The approximation is worst case BTU output, measured during recharge following a discharge.

## Warranty

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.



# ORDERING GUIDE

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

PROJECT NAME :

REP / DISTRIBUTOR :

ELECTRICAL DESIGNER / ENGINEER :

DATE :

# Power Wave 1

Example: PW-3.0-A02-S90-N08A40-FT-LCR20A(3)-GMS3-PM2

PW-

