



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.



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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

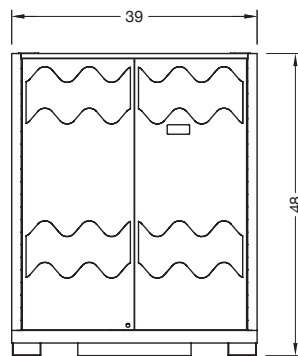
(Inches) Width x Height x Depth

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

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

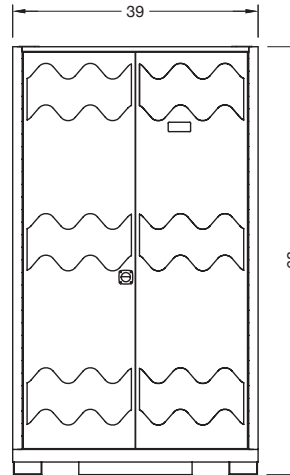
Cabinet I

90min: 2.1 to 3kW



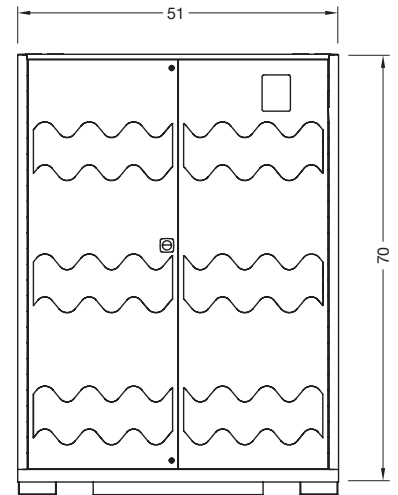
Cabinet II

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	2.1	2.1kW	A 120V
	3.0	3kW	B 208V
	5.0	5kW	D 240V
	6.0	6kW	R 277V
	8.0	8kW	H 480V
	010	10kW	
	012	12.5kW	
	015	15kW	
017	17kW		
			0100N1 120V
			1300N1 208V
			0400N1 240V
			2500N1 277V
			*5800T1 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
2.1	826	982
3.0	1066	1020
5.0	1284	1524
6.0	1284	1596
8.0	1464	1833
10	2870	2913
12.5	3777	3657
15	4512	5300
17	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-LCR20B(3)-GMS3-PM2

PW-

