



Power Wave 3

Three Phase, 8 to 50kW

A POWERFUL INVERTER SOLUTION

The Power Wave 3 is capable of protecting Large Scale Loads while maintaining a Pure Sine Wave Output. Equipped with 2 Isolation Transformers to protect your loads from surges and while minimizing electrical noise and harmonics.



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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 Sinusoidal Waveform
- ✓ High Frequency Pulse Width Modulation (PWM) for Conditioned Power to the Load
- ✓ Internal Maintenance Bypass Switch
- ✓ TVSS Input Transient Voltage Surge Suppressor (Class C)
- ✓ Main Input & Output Breakers (UL489)
- ✓ 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
- Normally ON or Normally OFF Auxiliary Output Circuit Breakers (24 Max)
- Custom Rated KAIC Breakers
- 65 KAIC Total System Short Circuit Current Rating
- External Maintenance Bypass Switch
- Seismic Brackets
- 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 3

Three Phase
10-62kVA (8 to 50kW)

*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: +10% / -15%
Frequency: Slew rate of 1Hz/sec (max)

OUTPUT

AC Voltage Regulation: +5% regulated within
CBEMA curve
Wave Form: Sine Wave
Harmonic Distortion: < 5% of THD at linear load
Efficiency: Greater than 90%
Inverter Overload Capability: 125% for 10 minutes,
150% surge for 10 seconds
Bypass Overload Capability: 150%

PROTECTION

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

BATTERY

Battery: Sealed, Maintenance-free, Lead-Acid,
VRLA (Standard) 10 years

Recharge Time: Conforms to UL standards

ENVIRONMENT (Electronics)

Operating Temp: 0° to 40°C (32° to 104°F)
Electronic Storage Temp: -20° to 70°C (-4° to 158°F)
Humidity: 0% to 95% (non-condensation)
Altitude: Up to 6,000 ft
Audible Noise: 57 dBA, typical

Cabinet Dimensions

(Inches) Width x Height x Depth

Inverter Cabinet

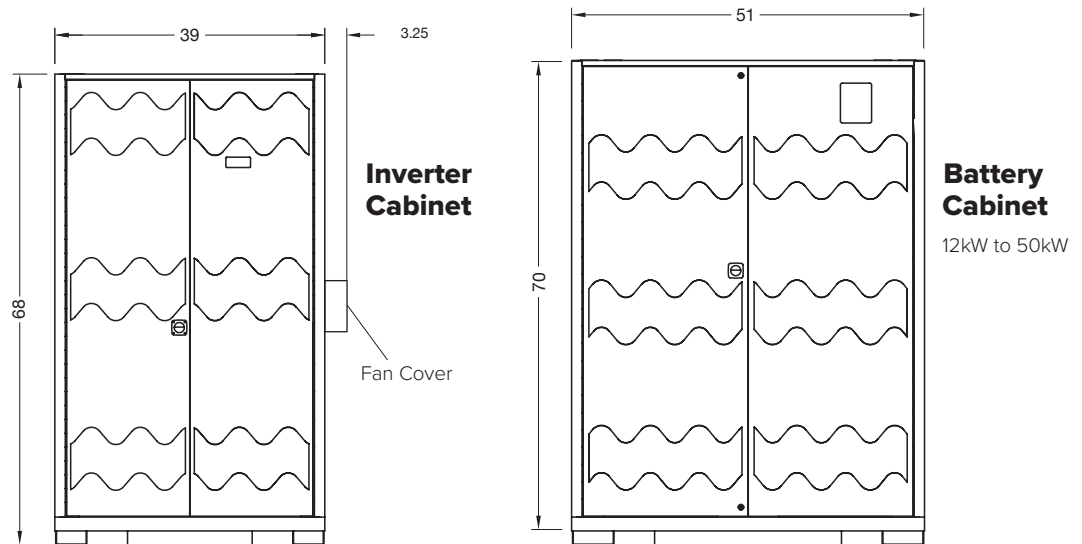
39"W x 68"H x 18"D

Battery Cabinet (8kW)

39"W x 68"H x 18"D

Battery Cabinet

51"W x 70"H x 30.5"D



Model Numbers

Unit Name	Capacity (kVA/kW)	Input (Volts)	Output (Volts)
PW Power Wave 3	010 10/8	B 208Y/120	05LHT3-VA 208Y/120
	015 15/12	H 480Y/277	09LHT3-VA 480Y/277
	020 20/16		
	025 25/20		
	030 30/24		
	040 40/32		
	050 50/40		
	062 62/50		

KW equates to real power.

BTU / Weight

Capacity (kVA/kW)	Cabinets	90 MIN (LBS)				120 MIN (LBS)			
		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	3

Approximately 3000 BTU's per hour for every 10 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

PROJECT NAME :

REP / DISTRIBUTOR :

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

ELECTRICAL DESIGNER / ENGINEER :

DATE :

Power Wave 3

Example: PW-50-B05-S90-N08A40-FT-LCR20A(3)-GMS3-PM2

PW-

PW

MODEL SERIES

PW:
Power Wave 3

50

CAPACITY KW/KVA

08: 8/10
12: 12/15
16: 16/20
20: 20/25
24: 24/30
32: 32/40
40: 40/50
50: 50/62

B05

VOLTAGE INPUT/OUTPUT

INPUT	OUTPUT
B - 208Y/120	05 - 208Y/120
H - 480Y/277	09 - 480Y/277

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

S90

BATTERY TYPE

S90: Standard @ 90min
***L90:** Long Life @ 90 min
H90: Hi Temp @ 90 min
U90: USA @ 90 min
(required for BAA and BABA compliance)
S120: Standard @ 120min
***L120:** Long Life @ 120 min
H120: Hi Temp @ 120 min
U120: USA @ 120 min
(required for BAA and BABA compliance)

*Long Life 20 Yr. Pro Rata Battery.

N08A40

AUX BREAKERS (UL1077)

AUX BREAKERS EXAMPLE

N 08 A 40

OUTPUT

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

BREAKERS

***01 - 24** (Max 24)

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

* 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 a normally OFF circuit.

***Consult factory for custom amp rating.

FT + LCR20A(3) + GMS3

OPTIONS

PICK ANY:

X: Seismic Mounting
LCR20A(#): Load Control Relay, Single Flex Stud Mounting (#): Qty
LCR20(#): Load Control Relay, No Flex (#): Qty
EB: Ex. Maintenance Wraparound Bypass Switch
SCCR: 65 KAIC Total System Short Circuit Current Rating
DS: Drip Shield Hood
CL: Corbin Lock

BATTERY OPTIONS

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

MONITORING OPTIONS

DO: Dry Contacts Open Signal
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

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

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

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: Additional 4 Hour Training at Time of Start Up

T2: Additional Training day up to 8 hours



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