



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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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



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

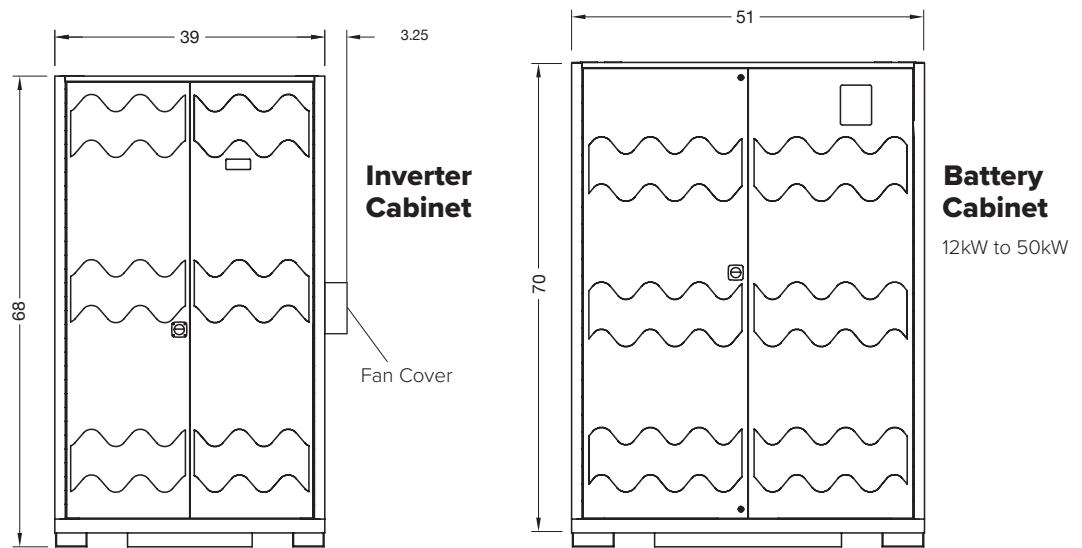
ENVIRONMENT (Electronics)

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	1392	1085	1552
015 15/12		1446	3224	1446	2112
020 20/16		1679	3560	1679	3104
025 25/20		1679	4545	1679	3504
030 30/24		1719	4568	1719	4656
040 40/32		2066	8664	2066	5148
050 50/40		2463	8800	2463	7760
062 62/50		2565	12700	2565	8760

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.

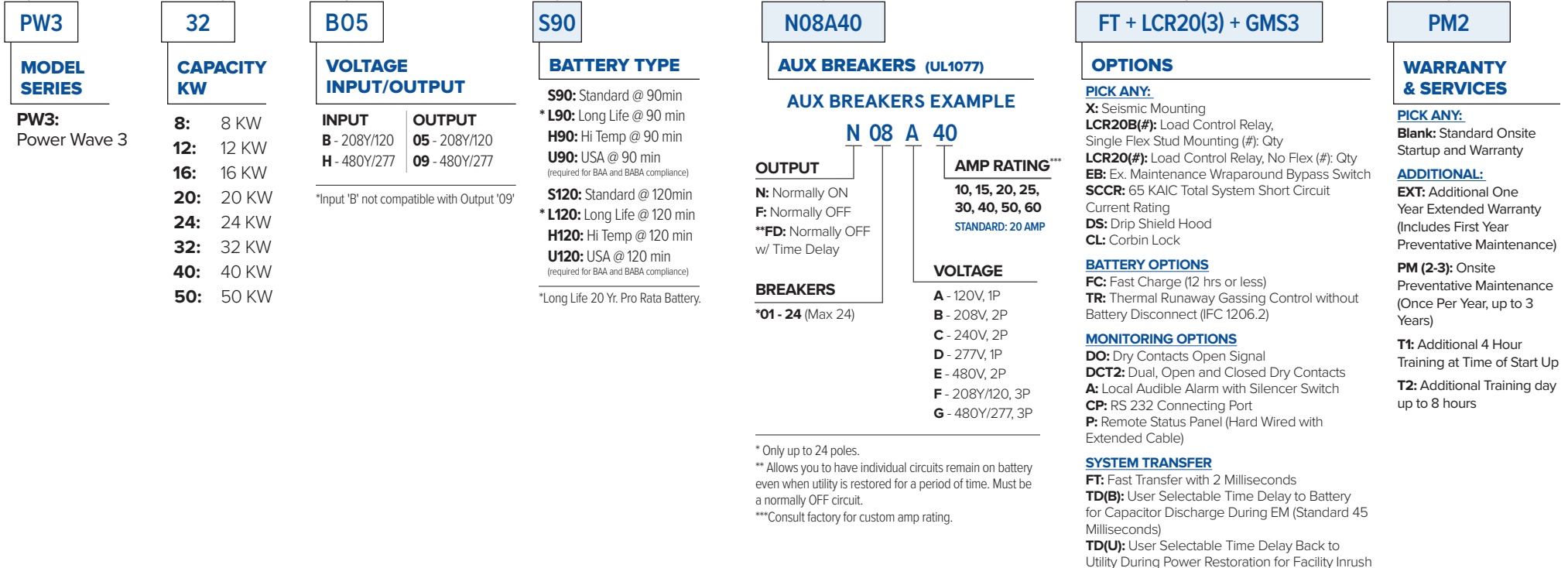
ELECTRICAL DESIGNER / ENGINEER :

DATE :

Power Wave 3

Example: PW3-32-B05-S90-N08A40-FT-LCR20(3)-GMS3-PM2

PW3-



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

