



Power Wave 4

Three Phase, 8 to 400kW



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A POWERFUL INVERTER SOLUTION

Best high-capacity Three Phase solution you can get, UL1778 and UL924 listed and meeting strict standards from NFPA — with its versatile design and exceptional reliability, the Power Wave 4 inverter is the ultimate solution to meet all your emergency lighting needs.

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
- ✓ Field Selectable: UPS Double Conversion or Green Mode (Standby)
- ✓ Independent Phase Control
- ✓ Local Event Logger with Memory up to 500 Events with optional RS232 or RS485 PC Connections
- ✓ Input Breaker, Output Breaker and DC Breaker
- ✓ Microprocessor Controlled LCD with visual status and Event indicators
- ✓ Self-Testing and Battery Exerciser with LCD Display

OPTIONAL FEATURES

- Global Monitoring (GMS):
 - GMS 2: Remote Monitoring with Local Network Connection
- Remote Status Panel
- Battery Monitoring (String or Per Battery)
- TVSS Input Transient Voltage Surge Suppressor (Class C)
- Dry Contacts Normally Open
- Normally ON or Normally OFF Auxiliary Output Circuit Breakers (20 Max)
- Custom Rated KAIC Breakers
- 65 KAIC Total System Short Circuit Current Rating
- Thermal Runaway Control (IFC 1206.2)
- Seismic Brackets
- Long Life Battery 20 Year Warranty
- Maintenance:
 - Extended Warranty
 - Preventative Maintenance Plans



SPECIFICATIONS

Power Wave 4

Three Phase
10-500kVA (8 to 400kW)

*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: $\pm 15\%$
Frequency: 50/60Hz ± 7

OUTPUT

AC Voltage Regulation: $\pm 1\%$
Wave Form: Sinusoidal
Harmonic Distortion: Less than 2% THD
Frequency Tolerance: ± 0.1 Hz

PROTECTION

Overload: Less than 110% Load: Continuous,
125-150%: 5 min, Higher than 150%: 30 sec

BATTERY

Battery: Sealed, Maintenance-free, Lead-Acid,
VRLA (Standard) 10 years
Recharge Time: Varies per kVA, conforms to UL924

NOISE ISOLATION

Isolation: True Galvanic Isolated

ENVIRONMENT (Electronics)

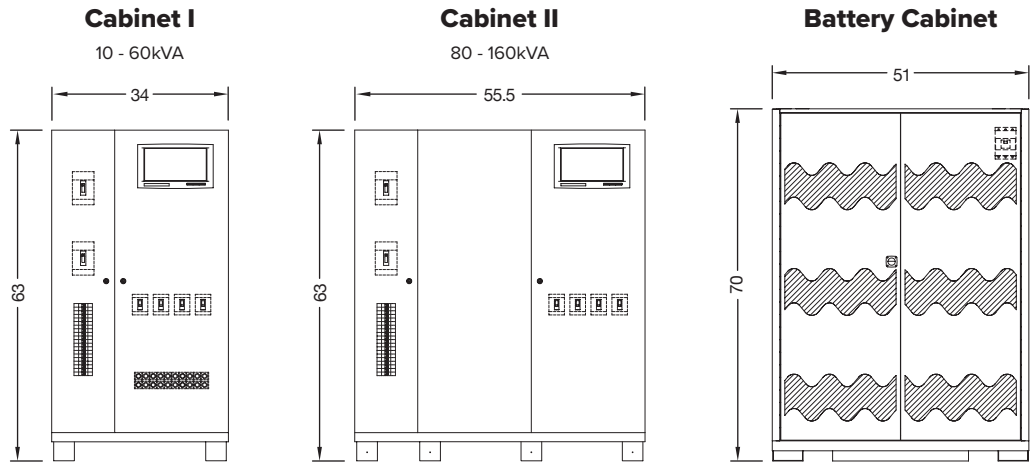
Operating Temperature: 0° to 40°C (32° - 104°F)
Storage Temperature: -20° to 70°C (-4° - 158°F)
Humidity: 0% to 90% (non-condensation)
Altitude: Up to 5,000 ft
Audible Noise: Less than 65dBA at 1 meter/39.4 in.

Cabinet Dimensions

(Inches) Width x Height x Depth

| |
|--|
| Cabinet I 34"W x 63"H x 31.5"D |
| Cabinet II 55.5"W x 63"H x 31.5"D |
| Battery Cabinet 51"W x 70"H x 30.5"D |

Each model comes with both inverter and battery cabinets. Larger capacity will require additional battery cabinets. Size and weight will vary depending on capacity



Model Numbers

| Unit Name | Capacity kVA/kW | Input (VOLTS) | Output (VOLTS) |
|--------------------|--------------------|-------------------|------------------------|
| PW Power Wave 4 | 010 10/8 | B 208Y/120 | 05ATT3 208Y/120 |
| | 020 20/16 | H 480Y/277 | 09ATT3 480Y/277 |
| | 030 30/24 | | |
| | 040 40/32 | | |
| | 050 50/40 | | |
| | 060 60/48 | | |
| | 080 80/64 | | |
| | 100 100/80 | | |
| | 120 120/96 | | |
| | 160 160/128 | | |
| 200 200/160 | | | |
| 240 240/192 | | | |
| 300 300/240 | | | |
| 400 400/320 | | | |
| 500 500/400 | | | |

kW equates to real power.

BTU / Weight

| Capacity kVA/kW | BTU/HR | | Cabinets - 90MIN (LBS) (# OF CABINETS) | | | Cabinets - 120MIN (LBS) (# OF CABINETS) | | |
|--------------------|----------|-------|--|----------------------|----------|---|----------------------|----------|
| | STANDARD | GREEN | INVERTER | TOP | FRONT | INVERTER | TOP | FRONT |
| 10/8 | 3374 | 1742 | 840 (1) | 2430 (1) | 2975 (1) | 840 (1) | 2430 (1) | 2975 (1) |
| 20/16 | 6747 | 2873 | 1083 (1) | 3213 (1) | 3990 (1) | 1083 (1) | 3416 (1) | 3990 (1) |
| 30/24 | 10120 | 4310 | 1260 (1) | 4361 (1) | 4135 (1) | 1260 (1) | 4535 (1) | 5034 (1) |
| 40/32 | 12131 | 5747 | 1414 (1) | 3213 (2) | 5034 (1) | 1414 (1) | 3416 (2) | 3990 (2) |
| 50/40 | 15164 | 5687 | 1525 (1) | 3427 (2) | 3990 (2) | 1525 (1) | 3867 (2) | 4153 (2) |
| 60/48 | 18197 | 6824 | 1724 (1) | 3867 (2) | 4135 (2) | 1724 (1) | 4923 (2) | 5034 (2) |
| 80/64 | 24263 | 9099 | 2276 (1) | 4615 (2) | 5034 (2) | 2276 (1) | 4729 (2) | 5034 (3) |
| 100/80 | 30329 | 11373 | 2984 (1) | 3707 (1) 4729 (2) | 5034 (3) | 2984 (1) | 3416 (1) 4923 (2) | 5034 (3) |
| 120/96 | 32395 | 10130 | 3138 (1) | 3416 (2) 4923 (2) | 5034 (3) | 3138 (1) | 4923 (4) | 5034 (4) |
| 160/128 | 43193 | 13507 | 3868 (1) | * | 5060 (4) | 3868 (1) | * | 5060 (5) |
| 200/160 | 53992 | 16884 | 5746 (1) | * | 5060 (5) | 5746 (1) | * | 5060 (6) |
| 240/192 | 64790 | 20206 | 6229 (1) | * | 5060 (6) | 6229 (1) | * | * |
| 300/240 | 80988 | 25326 | 7293 (1) | * | * | 7293 (1) | * | * |
| 400/320 | 94942 | 33768 | 9061 (1) | * | * | 9061 (1) | * | * |
| 500/400 | 118678 | 42210 | 10166 (1) | * | * | 10166 (1) | * | * |

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 4

Example: PW4-160-B05-S90-N08A40-FC-GMS LAN-PM2

PW4-

