

# SINGLE PHASE CENTRAL LIGHTING INVERTER

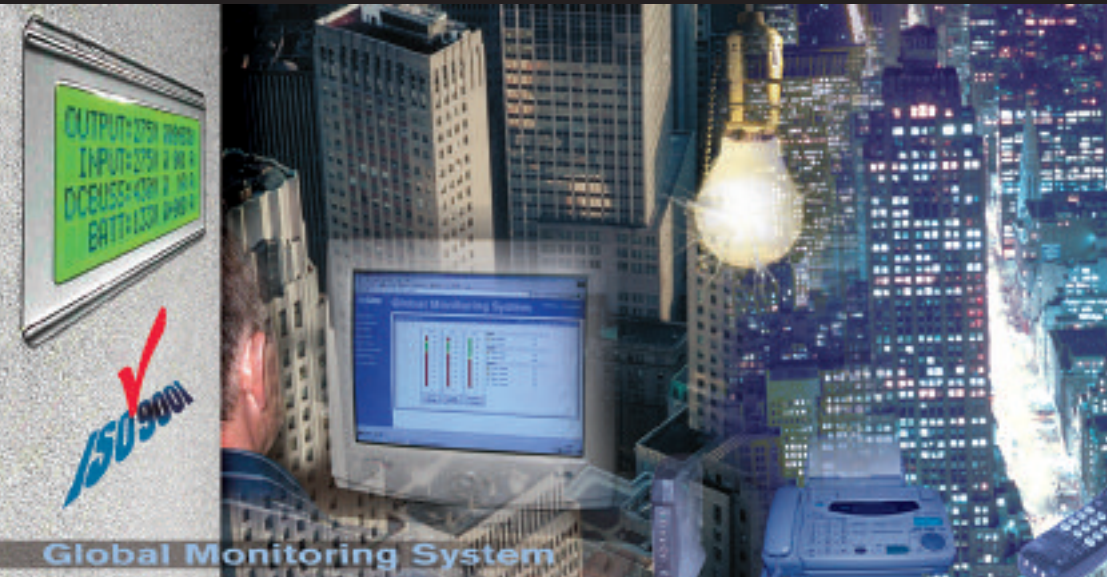
90 MINUTES BATTERY BACKUP TIME @ FULL LOAD

Incandescent, Fluorescent, HID, HPS, Power factor and energy efficient Ballast Compatible

COMPUTER ROOM • PRODUCTION FACILITY • TESTING LAB • TELECOMMUNICATIONS  
RETAIL SALES / POS • INDUSTRIAL • GOVERNMENT • PUBLIC BUILDING • SCHOOLS  
LIBRARY • HEALTHCARE • CRUISE LINE • BANKING / CREDIT • PRINTING FACILITY

## POWER WAVE KVA

### 3 TO 20 KVA



#### Emergency Lighting Approved

UL 924 with 90 minutes of sealed lead calcium batteries to power emergency lighting circuits, the Power Wave will keep egress path illuminated.

#### State of Art Technology

High Frequency PWM double conversion use Digital Signal Processing for control, measurement to protect the load. The Power Wave is always on-line, eliminating noise, spikes, sags, and brownouts. Should utility power fail, the inverter provides uninterrupted output power to the critical load. This high frequency unit is listed to UL1778, 924, and 924A by CSA.

#### Display (local and remote)

The Power Wave provides one of the most comprehensive monitoring packages. Its 4 line X 20 character backlit LCD panel continuously display and monitor vital power line conditions and status of the unit.

#### Global Monitoring System (GMS)

The Power Wave can communicate with computers, and serial devices via its local RS232/RS485 ports standard on every model making Power Wave compatible with today's most popular devices. Optional dry contacts are also available for remote monitoring and annunciation. GMS options includes dial-up modem, fax, alpha pager, beeper, email, and internet web page for monitoring or retrieving event logs and system status information.

#### Alarms

The Power Wave offers local alarm and optional remote display with sound alert (including unit status). It also offers most extensive method of remote alarm notification via pager, email, fax, voice annunciation and website. The system can advise multiple recipients.

#### Small Footprint Cabinet

The Power Wave requires less floorspace than most other UPS systems and Stackable Cabinet Rack are available as an option for more space savings. Its compact, lightweight design saves overall space, facilitates handling, and keeps shipping costs to a minimum.

#### Input Power Factor Correction

The Power Wave pays for itself by correcting input current draw to reduce your utility bill without compromising power quality.

#### Isolation, Including Output Neutral To Ground Bonding

The Power Wave provides the galvanic electrical isolation required by FIPS PUB 94 (Federal Information Processing Standard) and it qualifies as a true, separately derived power source as defined by the National Electrical Code, Article 250-5d. This isolation allows the Power Wave to offer excellent RF noise filtering and single point grounding for sensitive electronic equipment (standard on all models with different input/output voltages). Optional harmonic tolerant transformer (up to K-50) for today's switching equipment is available.

#### Distribution (optional)

Normally On and OFF Output breakers are available with optional trip alarm as well as customer selectable time delay.

#### Safeguard™ Battery Management System

OnLine Power has designed (patent pending) a process for the real time ability to charge and monitor the battery system. This system utilizes a microprocessor technology to monitor the batteries critical levels and apply charging cycles in a method substantially increasing battery life.

Listed to  
UL1778, UL924, UL924A by CSA

Built-in Input Power Factor Correction

Modular Assembly for Ease of Installation

LCD Panel for Monitoring

Global Monitoring System (GMS)

90% Efficiency (typ.)

Pulse Width Modulated (PWM)

Generator Compatible with Automatic Governor max 2Hz per second

Transformerless Technology (Same Input/Output voltage only)

Double Conversion Technology

Battery Exerciser

Small Foot Print Cabinet and Certified Zone 4 Seismic Bracket

1 Year Warranty

# POWER WAVE KVA SPECIFICATIONS

**Power Rating:** 3, 5, 7.5, 10, 12.5, 15, and 20 KVA

**Input Voltage:**

3 & 5 KVA; 120, 208, 240, or 277 VAC  
(-20% to +15%);

7.5 - 20 KVA; 208, 240, or 277 VAC  
(-15% to +15%)

**Input Frequency:** Slew rate of 2Hz/sec

**Output Voltages:** 3 - 20 KVA; 120, 208, 240, or 277VAC

**Output Freq. (Inverter Operation):**  
60 Hz ±0.5 Hz

**Voltage Regulation:** ±3%

**Output Wave Form:** Sine-Wave

**Optional Input Protection:** Input circuit breaker provided protection to the unit, load and personnel. Input Circuit Breaker will be higher interruption rated (10, 42, and 65 KAIC)

**Optional Output Protection:** Internal Electronic overload protection. Circuit breaker provides inherent over-load protection. Factory selectable voltage 120, 208, 240, or 277 for input or output voltages. If input is different from output or output different from input, an internally mounted transformer is required.

**Output Power Factor:** 0.7

**Efficiency:** 90% typical

**Isolation:** Complete from line. Output neutral bonded to ground

**Noise Isolation:** -120 dB Common-Mode; -60 dB Transverse-Mode

**Battery:** Sealed maintenance-free (AGM) battery

**Recharge Time:** Conforms to UL Standard

**External Battery:** Provisions for hardwire connection of optional external battery cabinets or DC source.

**Environmental:**

**Humidity:** 0 - 95% RH w/ no condensation

**Operating Temperature:**

UPS: 0° to 40°C. (32° - 104°F)

Battery: 20° to 25°C. (68°-77°F)

**Storage Temperature:** -20° to 60°C.  
(-4° - 140°F) electronics only.

**Altitude:** Up to 10,000 ft

**Safety Agencies:**

Listed to ULI778, UL924, UL924A by CSA

**Cabinet Size:**

**Cab "B":** 39"W x 48"H x 18"D

**Cab "C":** 39"W x 68"H x 18"D

## STANDARD FEATURES

- Back-lit LCD Display for monitoring
- RS 232 & RS 485 ports for metering, measuring, and diagnostic.
- System pre-wired for optional Global Monitoring System (GMS)
- Battery Breaker
- Inverter Test Switch
- Generator Compatible with Automatic Governor (Slew Rate 2Hz/sec.)
- Battery Management Software
- High Frequency PWM with Digital Signal Processing Technology
- Built-in Input Power Factor Correction

## OPTIONS

- Secondary Auxiliary Circuit Breakers: Normally On, Normally Off, Normally Off w/ Delay, Trip Alarm
- Form 'C' Contacts (5), (N.o.)
- Secondary Normally On/Off Terminal Block selection
- Remote Status Panel Unit with Audio Alarm and Silence Switch
- Local Audio Alarm with Silence Switch
- Make Before Break Internal Maintenance Bypass Switch
- External Maintenance Bypass Switch (wrap around type)
- Main Input and/or Output Circuit Breaker (with custom KAIC)
- Built-in Secondary Distribution
- Input Transient Voltage Surge Suppressor (TVSS)
- Harmonic Tolerance (up to K-50)
- EMI Filter
- Stackable Cabinet Rack to save floor space
- Certified Zone 4 Seismic Bracket
- Extended Warranty and Service Plans
- Spare Part Kits Available
- **Global Monitoring System (GMS)**

### LOCAL

- Local PC via RS232 and RS485
- Event logging up to 500

### REMOTE

- **Dial-up**
  - Voice (10 event logging), numeric pager
  - Voice, data, fax, pager, PC, e-mail, event logging up to 500
  - Voice, data, fax, pager, PC, e-mail, and measurement (500 event logging plus graphic)

### ● Web/SNMP:

System status, measurement, alarm notification, event logging and password protected configuration.

*Consult Factory for more features and choices of remote communication.*

KVA/ KW	Input/Output Voltages	MODEL NUMBERS	DC Volts	BTU/ Hr	Cabinet Size UPS (Battery) (W x H x D)	Weights (lbs)	
						UPS	Battery
3.0/ 2.1	120/120 208/208 240/240 277/277 120, 208, 240, or 277	PW3.0A0100NI-VA	96	859	39" x 48" x 18"	826	N/A
		PW3.0B1300NI-VA		859		826	
		PW3.0D0400NI-VA		859		826	
		PW3.0R2500NI-VA		859		826	
		**PW3.0X5800TI-VA		1166		896	
5.0/ 3.5	120/120 208/208 240/240 277/277 120, 208, 240, or 277	PW5.0A0100NI-VA	120	1314	39" x 68" x 18"	1101	N/A
		PW5.0B1300NI-VA		1314		1101	
		PW5.0D0400NI-VA		1314		1101	
		PW5.0R2500NI-VA		1314		1101	
		**PW5.0X5800TI-VA		1433		1171	
*7.5/ 5.2	208/208 240/240 277/277 208, 240, or 277	PW7.5B1300NI-VA	120	1973	39" x 68" x 18"	1506	N/A
		PW7.5D0400NI-VA		1973		1506	
		PW7.5R2500NI-VA		1973		1506	
		**PW7.5X5800TI-VA		2150		1666	
*10/ 7	208/208 240/240 277/277 208, 240, or 277	PW010B1300NI-VA	192	2629	39" x 68" x 18" (39" x 48" x 18")	1080	787
		PW010D0400NI-VA		2629		1080	
		PW010R2500NI-VA		2629		1080	
		**PW010X5800TI-VA		2866		1255	
*12.5/ 8.8	208/208 240/240 277/277 208, 240, or 277	PW012B1300NI-VA	192	3287	39" x 68" x 18" (39" x 48" x 18")	1305	1047
		PW012D0400NI-VA		3287		1305	
		PW012R2500NI-VA		3287		1305	
		**PW012X5800TI-VA		3583		1525	
*15/ 10.5	208/208 240/240 277/277 208, 240, or 277	PW015B1300NI-VA	240	3926	39" x 68" x 18" (39" x 48" x 18")	1545	1247
		PW015D0400NI-VA		3926		1545	
		PW015R2500NI-VA		3926		1545	
		**PW015X5800TI-VA		4299		1885	
*20/ 14	208/208 240/240 277/277 208, 240, or 277	PW020B1300NI-VA	240	5257	39" x 68" x 18" (39" x 48" x 18")	1999	2173
		PW020D0400NI-VA		5257		1999	
		PW020R2500NI-VA		5257		1999	
		**PW020X5800TI-VA		5732		2559	

\* 120V Input Units are available, Contact Factory.

\*\* Input Voltage "X": A=120 (3 & 5 KVA only), B=208, D=240, R=277 VAC  
Output Voltage "58": 120, 208, 240, AND 277 VAC

All units are 90 minutes Battery Back-up time @ full Load.  
For longer back-up times (up to 6 hours), consult factory

Specifications are subject to change without prior notification.

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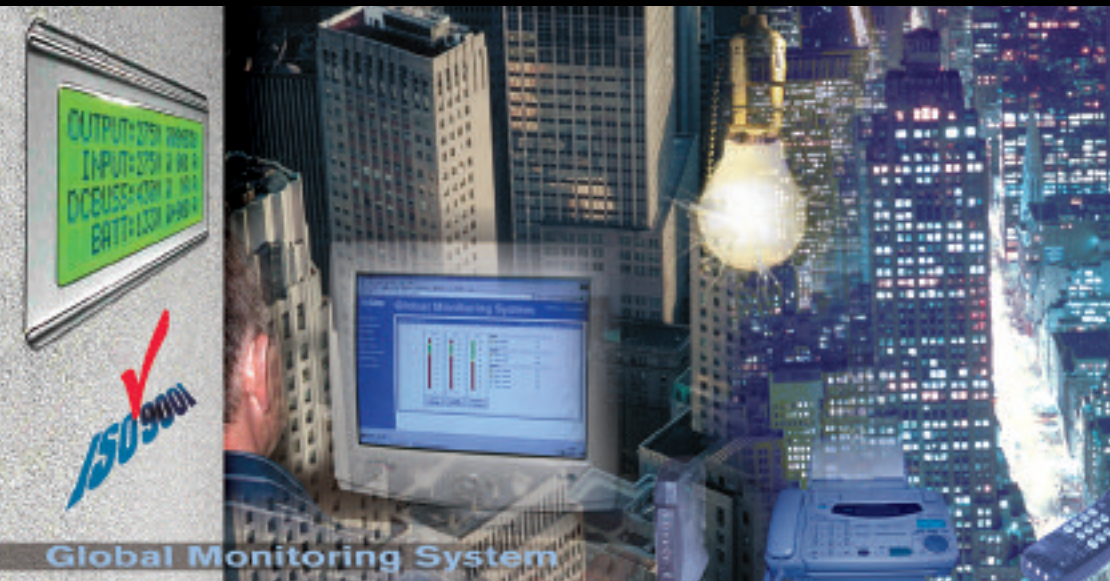
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## POWER WAVE KW

### 3 TO 15 kW



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#### State of Art Technology

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#### Display (local and remote)

The Power Wave provides one of the most comprehensive monitoring packages. Its 4 line X 20 character backlit LCD panel continuously display and monitor vital power line conditions and status of the unit.

#### Global Monitoring System (GMS)

The Power Wave can communicate with computers, and serial devices via its local RS232/RS485 ports standard on every model making Power Wave compatible with today's most popular devices. Optional dry contacts are also available for remote monitoring and annunciation. GMS options includes dial-up modem, fax, alpha pager, beeper, email, and internet web page for monitoring or retrieving event logs and system status information.

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#### Small Footprint Cabinet

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#### Input Power Factor Correction

The Power Wave pays for itself by correcting input current draw to reduce your utility bill without compromising power quality.

#### Isolation, Including Output Neutral To Ground Bonding

The Power Wave provides the galvanic electrical isolation required by FIPS PUB 94 (Federal Information Processing Standard) and it qualifies as a true, separately derived power source as defined by the National Electrical Code, Article 250-5d. This isolation allows the Power Wave to offer excellent RF noise filtering and single point grounding for sensitive electronic equipment (standard on all models with different input/output voltages). Optional harmonic tolerant transformer (up to K-50) for today's switching equipment is available.

#### Distribution (optional)

Normally On and OFF Output breakers are available with optional trip alarm as well as customer selectable time delay.

#### Safeguard™ Battery Management System

OnLine Power has designed (patent pending) a process for the real time ability to charge and monitor the battery system. This system utilizes a microprocessor technology to monitor the batteries critical levels and apply charging cycles in a method substantially increasing battery life.

Listed to  
UL1778, UL924, UL924A by CSA

Built-in Input Power Factor Correction

Modular Assembly for Ease of Installation

LCD Panel for Monitoring

Global Monitoring System (GMS)

90% Efficiency (typ.)

Pulse Width Modulated (PWM)

Generator Compatible with Automatic Governor max 2Hz per second

Transformerless Technology (Same Input/Output voltage only)

Double Conversion Technology

Battery Exerciser

Small Foot Print Cabinet and Certified Zone 4 Seismic Bracket

1 Year Warranty

# POWER WAVE KW SPECIFICATIONS

**Power Rating:** 3, 5, 7.5, 10, 12.5, and 15 KW

**Input Voltage:**

3 & 5 KW; 120, 208, 240, or 277 VAC  
(-20% to +15%)

7.5 - 15 KW; 208, 240, or 277 VAC  
(-15% to +15%)

**Input Frequency:** Slew rate of 2Hz/sec

**Output Voltages:**

3 - 15 KW; 120, 208, 240, or 277VAC

**Output Frequency (Inverter Operation):** 60 Hz ±0.5 Hz

**Voltage Regulation:** ±3%

**Output Wave Form:** Sine-Wave

**Optional Input Protection:** Input circuit breaker provided protection to the unit, load and personnel. Input Circuit Breaker will be higher interruption rated (10, 42, and 65 KAIC)

**Optional Output Protection:** Internal Electronic overload protection. Circuit breaker provides inherent over-load protection. Factory selectable voltage 120, 208, 240, or 277 for input or output voltages. If input is different from output or output different from input, an internally mounted transformer is required.

**Output Power Factor:** 0.7

**Efficiency:** 90% typical

**Isolation:** Complete from line. Output neutral bonded to ground

**Noise Isolation:** -120 dB Common-Mode; -60 dB Transverse-Mode

**Battery:** Sealed maintenance-free (AGM) battery

**Recharge Time:** Conforms to UL Standard

**External Battery:** Provisions for hardwire connection of optional external battery cabinets or DC source.

**Environmental:**

**Humidity:** 0 - 95% RH w/ no condensation

**Operating Temperature:**  
UPS: 0° to 40°C. (32° - 104°F)  
Battery: 20° to 25°C. (68°-77°F)

**Storage Temperature:** -20° to 60°C.  
(-4° - 140°F) electronics only.

**Altitude:** Up to 10,000 ft

**Safety Agencies:**

Listed to ULI778, UL924, UL924A by CSA

**Cabinet Size:**

**Cab "B":** 39"W x 48"H x 18"D

**Cab "C":** 39"W x 68"H x 18"D

## STANDARD FEATURES

- Back-lit LCD Display for monitoring
- RS 232 & RS 485 ports for metering, measuring, and diagnostic.
- System pre-wired for optional Global Monitoring System (GMS)
- Battery Breaker
- Inverter Test Switch
- Generator Compatible with Automatic Governor (Slew Rate 2Hz/sec.)
- Battery Management Software
- High Frequency PWM with Digital Signal Processing Technology
- Built-in Input Power Factor Correction

## OPTIONS

- Secondary Auxiliary Circuit Breakers: Normally On, Normally Off, Normally Off w/ Delay, Trip Alarm
- Form 'C' Contacts (5), (N.o.)
- Secondary Normally On/Off Terminal Block selection
- Remote Status Panel Unit with Audio Alarm and Silence Switch
- Local Audio Alarm with Silence Switch
- Make Before Break Internal Maintenance Bypass Switch
- External Maintenance Bypass Switch (wrap around type)
- Main Input and/or Output Circuit Breaker (with custom KAIC)
- Built-in Secondary Distribution
- Input Transient Voltage Surge Suppressor (TVSS)
- Harmonic Tolerance (up to K-50)
- EMI Filter
- Stackable Cabinet Rack to save floor space
- Certified Zone 4 Seismic Bracket
- Extended Warranty and Service Plans
- Spare Part Kits Available
- **Global Monitoring System (GMS)**

### LOCAL

- Local PC via RS232 and RS485
- Event logging up to 500

### REMOTE

- **Dial-up**
  - Voice (10 event logging), numeric pager
  - Voice, data, fax, pager, PC, e-mail, event logging up to 500
  - Voice, data, fax, pager, PC, e-mail, and measurement (500 event logging plus graphic)
- **Web/SNMP:** System status, measurement, alarm notification, event logging and password protected configuration.

*Consult Factory for more features and choices of remote communication.*

KW	Input/Output Voltages	MODEL NUMBERS	DC Volts	BTU/Hr	Cabinet Size UPS (Battery) (W x H x D)	Weights (lbs)	
						UPS	Battery
3.0	120/120 208/208 240/240 277/277 120, 208, 240, or 277	PW3.0A0100N1 PW3.0B1300N1 PW3.0D0400N1 PW3.0R2500N1 **PW3.0X5800T1	96	1227	39" x 48" x 18"	996	N/A
				1227		996	
				1227		996	
				1227		996	
				1433		1066	
5.0	120/120 208/208 240/240 277/277 120, 208, 240, or 277	PW5.0A0100N1 PW5.0B1300N1 PW5.0D0400N1 PW5.0R2500N1 **PW5.0X5800T1	120	1875	39" x 68" x 18"	1214	N/A
				1875		1214	
				1875		1214	
				1875		1214	
				2047		1284	
*7.5	208/208 240/240 277/277 208, 240, or 277	PW7.5B1300N1 PW7.5D0400N1 PW7.5R2500N1 **PW7.5X5800T1	120	2819	39" x 68" x 18" (39" x 48" x 18")	1224	966
				2819		1224	
				2819		1224	
				3070		1384	
*10	208/208 240/240 277/277 208, 240, or 277	PW010B1300N1 PW010D0400N1 PW010R2500N1 **PW010X5800T1	192	3755	39" x 68" x 18" (39" x 68" x 18")	1289	1406
				3755		1289	
				3755		1289	
				4094		1464	
*12.5	208/208 240/240 277/277 208, 240, or 277	PW012B1300N1 PW012D0400N1 PW012R2500N1 **PW012X5800T1	192	4696	39" x 68" x 18" (39" x 68" x 18")	1959	1598
				4696		1959	
				4696		1959	
				5118		2179	
*15	208/208 240/240 277/277 208, 240, or 277	PW015B1300N1 PW015D0400N1 PW015R2500N1 **PW015X5800T1	240	5608	39" x 68" x 18" (39" x 68" x 18")	1999	2173
				5608		1999	
				5608		1999	
				6141		2339	

\* Consult factory for 120V Input Units and other Power Ratings.

\*\* Input Voltage "X": A=120 (3 & 5 KVA only), B=208, D=240, R=277 VAC  
Output Voltage "58": 120, 208, 240, AND 277 VAC

All units are 90 minutes Battery Back-up time @ full Load.  
For other back-up times (up to 6 hours), consult factory

Specifications are subject to change without prior notification.

UPW-6128B-80106

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