



WR-I Single Phase Inverter

CENTRAL LIGHTING INVERTER



PROJECT: _____
FIXTURE TYPE: _____
LOCATION: _____
CONTACT/PHONE: _____

The Wave Rider I incorporates state of the art technology with PWM (Pulse Width Modulated), double conversion design for emergency lighting applications. The Wave Rider is always online, eliminating noise, spikes, sags and brownouts. When utility power fails, the Inverter provides uninterrupted output power to the emergency lighting circuits, in compliance with UL924 Life Safety Code for 90 minutes of egress illumination. The Wave Rider is the best design solution for emergency lighting power for a wide range of commercial and industrial applications.

PRODUCT FEATURES

- **Fast Transfer - Standby and Double Conversion, "no-break" online systems available.**
- **Efficiency:** 98% Standby - Fast Trans / 94% On-Line
- Built-in Power Factor Correction (Saves approx. 10% on utility bill)
- Automatic monthly and annual self testing
- Latest technology microprocessor controlled electronics with PWM (Pulse Width Modulated) design for true Sine Wave output.
- Continuous self-diagnostic and self-testing system.
- LCD backlit panel for comprehensive monitoring of power line conditions and Inverter status.
- Optional remote monitoring, including the advanced Global Monitoring System (GMS)
- Sealed maintenance-free lead calcium batteries with 10 year prorata warranty.
- Battery Exerciser
- Battery Sentinel Battery Monitoring System
- Modular cabinet design for ease of installation, small footprint with shallow 18" depth, convenient front access, optional certified Zone 4 Seismic brackets available.
- Generator Compatible
- 1 Year Warranty

Applications

For a wide range of commercial and industrial applications, from 2,100 to 17,000 watts.

Typical installations:

- Office Buildings
- Factories
- Hospitals
- Hotels & Motels
- Schools & Universities
- Shopping Centers
- Casinos
- Airports
- Military Installations
- Apartment Buildings
- Supermarkets
- Train & Bus Terminals



LIFE-LINE Wave Rider™ I CENTRAL LIGHTING INVERTER

**2.1 to 17 KW,
Single Phase (UPS or IPS)**

**HID, Incandescent, Fluorescent, LED
120, 208, 240, 277, or 480 Volts**

**Listed to UL924 Lighting
and UL1778 UPS Standards, by CSA**



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LIGHTING INVERTER



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KW	Input/Output Voltages	MODEL NUMBERS	DC Volts	BTU/ Hr	Cabinet Size (W x H x D)	Wgts (lbs)
2.1	120/120	WR3.0A0100NI-VA		859		826
	208/208	WR3.0B1300NI-VA		859		826
	240/240	WR3.0D0400NI-VA	96	859	39" x 48" x 18"	826
	277/277	WR3.0R2500NI-VA		859		826
	120,208,240,277,or 480	**WR3.0X5800TI-VA		1166		896
3.0	120/120	WR3.0A0100NI		1227		996
	208/208	WR3.0B1300NI		1227		996
	240/240	WR3.0D0400NI	96	1227	39" x 48" x 18"	996
	277/277	WR3.0R2500NI		1227		996
	120,208,240,277,or 480	**WR3.0X5800TI		1433		1066
5.0	120/120	WR5.0A0100NI		1875		1214
	208/208	WR5.0B1300NI		1875		1214
	240/240	WR5.0D0400NI	120	1875	39" x 68" x 18"	1214
	277/277	WR5.0R2500NI		1875		1214
	120,208,240,277,or 480	**WR5.0X5800TI		2047		1284
6.0	120/120	WR6.0A0100NI		2630		1224
	208/208	WR6.0B1300NI		2416		1224
	240/240	WR6.0D0400NI	144	2416	39" x 68" x 18"	1224
	277/277	WR6.0R2500NI		2416		1224
	120,208,240,277,or 480	**WR6.0X5800TI		2630		1284
*7.5	208/208	WR7.5B1300NI		2819		2190
	240/240	WR7.5D0400NI	120	2819	51" x 70" x 30.5"	2190
	277/277	WR7.5R2500NI		2819		2190
	208, 240, 277,or 480	**WR7.5X5800TI		3070		2350
8.0	120/120	WR8.0A0100NI		3278		1289
	208/208	WR8.0B1300NI		3004		1289
	240/240	WR8.0D0400NI	192	3004	39" x 68" x 18"	1289
	277/277	WR8.0R2500NI		3004		1289
	120,208,240,277,or 480	**WR8.0X5800TI		3278		1464
*10	208/208	WR010B1300NI		3755		2695
	240/240	WR010D0400NI	192	3755	51" x 70" x 30.5"	2695
	277/277	WR010R2500NI		3755		2695
	208, 240, 277,or 480	**WR010X5800TI		4094		2870
*12.5	208/208	WR012B1300NI		4696		3557
	240/240	WR012D0400NI	192	4696	51" x 70" x 30.5"	3557
	277/277	WR012R2500NI		4696		3557
	208, 240, 277,or 480	**WR012X5800TI		5118		3777
*15	208/208	WR015B1300NI		5608		4172
	240/240	WR015D0400NI	240	5608	51" x 70" x 30.5"	4172
	277/277	WR015R2500NI		5608		4172
	208, 240, 277,or 480	**WR015X5800TI		6141		4512
*17	208/208	WR017B1300NI		5608		4172
	240/240	WR017D0400NI	240	5608	51" x 70" x 30.5"	4172
	277/277	WR017R2500NI		5608		4172
	208, 240, 277,or 480	**WR017X5800TI		6141		4512

Specifications are subject to change without prior notification

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

** Input Voltage "X": A=120 (2.1 to 10kW only), B=208, D=240, R=277, H=480 VAC

Output Voltage "58": 120, 208, 240, 277, and 480 VAC

All units are 90 minutes Battery Back-up time @ full Load.

For other back-up times (up to 6 hours), consult factory

POWER RATING: 2.1, 3, 5, 7.5, 10, 12.5, 15, and 17 KW

Input Voltage: 2.1- 6, & 8KW; 120, 208, 240, 277, or 480 VAC (-20% to +15%)

7.5, 10-17kW; 208, 240, 277, or 480 VAC (-15% to +15%);

120V - Special Order

Output Voltage: 120, 208, 240, 277, or 480 VAC

OUTPUT FREQUENCY (Inverter Operation): 60Hz \pm 0.5Hz.

VOLTAGE REGULATION: \pm 3%

OUTPUT WAVE FORM: Sine-wave

NOISE ISOLATION: -120 dB. Common-Mode.; 60 dB. Transverse-Mode

EFFICIENCY: 98% Standby - Fast Transfer / 94% Online

CREST FACTOR: 3:1 Typical (may vary by model)

ENVIRONMENTAL:

Humidity: 0-95% RH w/no condensation

Operating temperature: UPS: -0° to 40°C. (32° to 104°F)

BATTERY: 20° to 25°C (68° to 77°F)

Storage temperature: -20° to 25°C. (-4 to 77°F)

SAFETY AGENCIES:

CSA Listed to UL 924, UL 924A, UL1778, NFPA101, NFPA70, NEC, and OSHA.

OPTIONAL INPUT PROTECTION: Input Circuit Breaker provided protection to the unit, load, and personnel. Input Circuit Breaker is rated at (10 KAIC) standard and higher interruption up to 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.

SURGE PROTECTION: The inverter will protect itself and the load against surge as defined in ANSI/IEEE C62.45 category A and B.

ISOLATION: Output is completely isolated from input, and with multi voltages, when input & output is different.

BATTERY: Sealed maintenance free (SMF), Lead Calcium

Battery Management System: Utilizes a microprocessor technology to monitor the batteries critical levels and apply charging cycles in a method to substantially increase battery life.

HOUSING: Free standing NEMA 1 Enclosure powder coated paint Front access only Multiple conduit entries Refer to chart for dimensions

RECHARGE TIME: per conform UL924

OPTIONS (add suffix to model #)

- **(OCB #)** Secondary Auxiliary Circuit Breakers: Normally On, Normally Off, Normally Off w/ Delay, Trip Alarm
- **(FCC)** Form 'C' Contacts (5), (N.O.)
- **(STB)** Secondary Normally On/Off Terminal Block selection
- **(RSP)** Remote Status Panel Unit with Audio Alarm and Silence Switch
- **(LAA)** Local Audio Alarm with Silence Switch
- **(IMB)** Make Before Break Internal Maintenance Bypass Switch
- **(EMB)** External Maintenance Bypass Switch (wrap around type)
- **(MIB)** Main Input Circuit Breaker (with custom KAIC)
- **(TVSS)** Input Transient Voltage Surge Suppressor
- **(HT)** Harmonic Tolerance (up to K-50)
- **(EMI)** EMI Filter
- **(SB)** Certified Zone 4 Seismic Bracket
- **(EW #)** Extended Warranty and Service Plans

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