

## Central Lighting Inverter

Three Phase  
208Y/120 or 480Y/277 VAC  
Modular design, Front access  
Listed to UL924 and UL1778  
**Hybrid Fast Transfer Green Mode**  
- 98% Efficiency (Typical)  
Online Continuous Mode  
- 94% Efficiency (Typical)



## Wave Rider™ IV-Hybrid 8 to 400KW

### Key Features:

- Automatic monthly and annual self testing
- Multiple design configurations
- True Galvanic isolation design
- Designed to protect against a floating neutral
- Advanced digital signal processing
- Modular design for ease of troubleshooting and maintenance
- Redundant Multi-CPU design allows the software and hardware to work together as a team
- The most intelligent and safe battery test circuitry available today
- Individualized inverter support on each phase
- Intelligent, fully temperature compensated battery charger
- Hi-Tech fan speed control
- Optimum design for heat dissipation
- Battery Power start feature

The Wave Rider IV is the ultimate Central lighting solution – providing uninterrupted power and protection against noise, lightning, and leakage current.

**A selection of optional accessories to meet your particular needs are available:**

- 3-Phase PC monitoring software
- Battery monitoring module
- 3-Phase SNMP card
- Input harmonic filter – reduces T.H.D. (Total Harmonic Distortion) of the input current

# Wave Rider™ IV-Hybrid Specifications

**Power Rating:** 8, 16, 24, 32, 40, 48, 64, 80, 96, 128, 160, 192, 240, 320, and 400 kW

**Input Voltage:**

208Y/120V or 480Y/277 VAC (-15% to +15%)

**Output Voltages:**

208Y/120V or 480Y/277 VAC

**Output Frequency (Inverter Operation):** 60 Hz ±1 Hz

**Voltage Regulation:** ±1% at 100% unbalanced load

**Output Voltage Wave Form:** Sine-Wave <2% THD.

**Crest Factor:** 3:1 Typical

**Surge Protection:** The UPS will protect itself and the load against surges as defined in ANSI/IEEE C62.41 Categories A and B.

**Isolation:** True galvanic isolated

**Battery:** Sealed maintenance-free VRLA or Long Life Battery (available upon request)

**Recharge Time:** Varies per KVA and conforms to UL924.

**Environmental:**

**Humidity:** 0 - 90% (non-cond.)

**Operating Temperature:**

UPS: 0° to 40°C. (32° - 104°F)  
Battery: 20° to 25°C. (68° - 77°F)  
higher temperature batteries are available for special order

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

**Altitude:** Up to 5,000 ft

**Cabinet Size (UPS only)**

(Width" x Height" x Depth"):

**8-48kW:** 34" x 63" x 31.5"

**64-128kW:** 55.5" x 63" x 31.5"

**160-240kW:** 100.25" x 63" x 31.5"

**320kW:** 133" x 71" x 39.5"

**400kW:** 178" x 71" x 39.5"

**Battery Cab:** 51" x 70" x 30.5"

## Standard Features

- 6 pulse or 12 pulse controlled rectifier (12 pulse for 80 kVA & up)
- Input/Output main circuit breakers
- Data and events LCD display
- Built-in Transient Voltage Surge Suppressor
- EMI suppression
- PWM methodology (DSP)
- Isolation transformer at output for True galvanic isolation
- Internal Maintenance Bypass Breakers
- Modular design to facilitate ease and speed of service
- Cold start function: UPS can be started with battery power only without an AC source
- Multi-CPU design: Several CPUs are employed in control circuit and critical functions are designed with parallel redundancy for added reliability
- Protection against misuse: circuit breaker on/off sensor, and power supply sensor, the user cannot cause UPS damage by operator error.
- Intelligent charger: UPS will automatically recharge with temperature compensation
- Intelligent battery test
- Redundant power supply

## Options

- Integral Auxiliary Output Circuit Breakers (consult factory)
- Delta Input/Output
- RS-232 / RS-485 for various accessory
- Event logging up to 500 events
- 8 Terminals of Dry Contacts are provided: INVON, OVL, FAULT, SS, BYPASS, BACKUP, BATL, COM
- Battery Cabinet Fan Exhaust
- Battery Cabinet Fan Exhaust Dry Contact
- Remote control panel UPSCAN™
- Software for PC monitoring UPSCAN™
- Auto dialing module UPSCAN™
- Battery Monitoring module DCMAN™
- 100% unbalancing load
- WIFI Monitoring (GMS)
- Wireless battery monitoring system: Ability to monitor individual batteries including battery impedance

Consult Factory for more features and choices of remote communication.



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KW	Input/Output Voltages	Model Numbers	DC Voltages	**Weights (lbs)	
				UPS	Each Battery Cab (#) of cab
8	208/120 - 208/120 480/277 - 480/277	WR010B05ATT3 WR010H09ATT3	348	840 840	2430 (1)
16	208/120 - 208/120 480/277 - 480/277	WR020B05ATT3 WR020H09ATT3	348	1083 1083	3213 (1)
24	208/120 - 208/120 480/277 - 480/277	WR030B05ATT3 WR030H09ATT3	348	1260 1260	4361 (1)
32	208/120 - 208/120 480/277 - 480/277	WR040B05ATT3 WR040H09ATT3	348	1414 1414	3213 (2)
40	208/120 - 208/120 480/277 - 480/277	WR050B05ATT3 WR050H09ATT3	348	1525 1525	3427 (2)
48	208/120 - 208/120 480/277 - 480/277	WR060B05ATT3 WR060H09ATT3	348	1724 1724	3817 (2)
64	208/120 - 208/120 480/277 - 480/277	WR080B05ATT3 WR080H09ATT3	348	2276 2276	4565 (2)
80	208/120 - 208/120 480/277 - 480/277	WR100B05ATT3 WR100H09ATT3	348	2984 2984	4900 (3)
96	208/120 - 208/120 480/277 - 480/277	WR120B05ATT3 WR120H09ATT3	348	3138 3138	4900 (4)
128	208/120 - 208/120 480/277 - 480/277	WR160B05ATT3 WR160H09ATT3	348	3868 3868	5000 (4)
160	208/120 - 208/120 480/277 - 480/277	WR200B05ATT3 WR200H09ATT3	348	5746 5746	5000 (5)
* 192	208/120 - 208/120 480/277 - 480/277	WR240B05ATT3 WR240H09ATT3	348	6229 6229	**
* 240	208/120 - 208/120 480/277 - 480/277	WR300B05ATT3 WR300H09ATT3	348	7293 7293	**
* 320	208/120 - 208/120 480/277 - 480/277	WR400B05ATT3 WR400H09ATT3	348	9061 9061	**
* 400	208/120 - 208/120 480/277 - 480/277	WR500B05ATT3 WR500H09ATT3	348	10166 10166	**

\* Units are available only upon request.

\*\* Consult Factory.