



### Additional Voltages Available

Consult factory for details

### 2-year Extended Warranty

(Available for Wave Rider systems only) Schedule a Preventative Maintenance call with Crucial Power during the 12<sup>th</sup> month after startup, and Crucial Power will extend the Onsite Warranty an additional 12 months. This can be pre-ordered, at a discounted rate, at the time of the original unit purchase.

### Main Input Circuit Breaker

(Standard on Econosine and Wave Rider 3, optional on Wave Rider 1) Hard wired at the UPS input for protection from the utility line and associated wiring disturbances. An optional, higher KAIC (up to 65KAIC) breaker is available, and should be specified when required.

### Output Circuit Breakers

Econosine: up to five (5) 1-pole available integral to inverter cabinet.

Wave Rider: Up to fourteen, (1) pole available integral to inverter cabinet. Up to 42 poles can be accommodated by using an integral externally-mounted panel board.

**Normally-On** – Power is available at all times to the emergency circuit(s)

**Normally-Off** – Power is only available to emergency circuit(s) when utility power is lost. Upon restoring normal power, emergency power is discontinued

**Trip Alarm** – Alarm when a circuit breaker is tripped.

**Time Delay** – Available from 0 to 20 minutes. Typically utilized with Normally-off emergency circuits serving HID lighting. Delays the discontinuation of emergency power (after restoration of utility power) for a customer-selected timeframe to accommodate the delay in restarting HID lighting.

### Internal Maintenance Bypass

An auto/man MBS switch can be provided integral to the UPS cabinet for connecting power to the critical load through the external maintenance bypass line. It shall be used when the unit needs to be de-energized for maintenance, without disrupting power to the load. Operating the switch shall be strictly restricted to authorized personnel with cabinet access key. The MBS shall be operated in conjunction with a S-1 synchronization switch, ensuring full synchronization and no inrush current during transfer.

### External Maintenance Bypass

This bypass switch, enclosed in a box, can be field mounted in the UPS cabinet or an adjacent wall. This unit includes a rotary switch with make before break contacts to provide a single control

for transferring to and from maintenance bypass with no load support interruption. (Not available with integral output circuit breakers in unit).

**Alarm & Silence Switch**

Provides audible warning signal, acknowledge and reset for the following conditions: Input Fail, On Bypass, Inverter On, Low Battery and Summary Alarm for any of the foregoing alarm conditions.

**(5) Form “C” Contacts**

Terminal strip TB provided on the alarm relay board for user connection to the individual alarm contacts. The Remote Contact Board includes isolated Form C contacts for the same signals as on the Remote UPS Status Panel.

**Remote Status Panel**

The Remote Status Panel is available in a console mount style box in black finish. It can also be wall mounted and comes with a 10 ft long “DB” connector signal cable or optional cable that can be up to 1000 feet long. The panel requires 120 VAC power, comes with 6 ft power cord, Silence switch, and LED /Horn test switch. It includes the following LED’s: Input Fail, On Bypass, Inverter On, Low Battery, Summary Alarm.

**Global Monitoring / Remote Notification Systems**

System Type	Modem Required?	
	No	Yes
Wave Rider 1 Single Phase	NetAgent Basic	NetAgent Advanced
Wave Rider 3 Three Phase	NetAgent Basic	Monitor 2000

**Single Phase – Wave Rider 1... NO PHONE LINE NEEDED!!!**

**NetAgent Basic**

Does not require a modem. Includes Alarm, Email notification, Event Logger. This option is a web enabled monitoring device for a unit with WIFI or LAN connection. The internal IP internet address can be pre-installed in firmware to fit customer network settings. The SNMP/Web card can monitor the UPS on the network through a standard web browser. A Network Management System software with Alarm Viewer utility shall provide monitoring of multiple units on a single console application. Inverter will notify administrators to specific power events by sending an e-mail, a page, SNMP trap, or network broadcast message.

**NetAgent Advanced..... NO PHONE LINE NEEDED!!!**

Includes option for a WIFI, LAN, GPRS or Dial-up connections. Includes Alarm, Email notification, Event Logger. The internal IP internet address can be pre-installed in firmware to fit customer network settings. The NetAgent card can monitor the UPS on the network through a standard web browser. A software utility shall provide monitoring of

multiple units on a single console application, and includes extended event and data logs. Inverter will notify administrators to specific power events by sending a SMS text message, e-mail, a page, SNMP trap, or network broadcast message.

### Three Phase – Wave Rider 3

#### NetAgent Basic.... **NO PHONE LINE NEEDED!!!**

Does not require a modem. Includes Alarm, Email notification, Event Logger. This option is a web enabled monitoring device for a unit with Internet or LAN connection. The internal IP internet address can be pre-installed in firmware to fit customer network settings. The NetAgent can monitor the UPS on the network through a standard web browser. A Network Management System software with Alarm Viewer utility shall provide monitoring of multiple units on a single console application. Inverter will notify administrators to specific power events by sending an e-mail, a page, SNMP trap, or network broadcast message.

#### Monitor 2000.....**Phone line needed!!!**

The Monitor 2000 requires a phone line for remote operation. The device shall send data, voice and text messages to 32 destinations like phone, fax, pager and e-mail via phone line DSL service. The Manager 2000 Windows software installed on a remote PC displays UPS parameters, events and stats graphs. The device shall be installed in the unit and comes fully wired and function-tested

### Long Life 20-year VRLA Battery

Similar to the standard 10-year battery, this sealed lead-calcium VRLA battery is maintenance free and requires no addition of water over the life of the battery. Battery is designed for 20-year life at 77 degrees Fahrenheit. Battery Warranty is 2 years full replacement and 18 years pro-rata.

### NiCad Batteries

Nickel Cadmium batteries provide operation over the widest range of temperatures (32F – 140F). These batteries require maintenance and the addition of distilled water over it's life expectancy. Life expectance is 25 years at 77 degrees Fahrenheit.