

# ECONOSINE

Single Phase, 500VA-3000VA  
Central Lighting Inverter

## Applications

Video Stores  
HMO Clinics  
Restaurants  
Small Offices  
Small Industrial  
Mall/Outlets  
Military  
Hotels/Motels  
Hospitals  
Small VA/KVA  
applications where  
size is the factor



24"

28"

15"

# WAVE RIDER I

Single Phase, 3-15 KVA/KW  
Central Lighting Inverter

The WaveRider brings to you a truly remarkable single phase Central Lighting Inverter. The new technology is remarkable because it is transformerless (same voltage in as out) using a synthesized sine wave created by a microprocessor circuit.

This unit operates at 30 Kilohertz and has continuous self-diagnostic of circuit that monitors all critical aspects of the Central Lighting Inverter. This is a Pulse Width Modulated (PWM) unit making it completely compatible with Power Factor corrected and energy efficient ballasts. It is also used with HID and HPS as well as incandescent and fluorescent lamps.



39"

68"

18"

# WAVE RIDER III

Three Phase, 10-50 KVA  
Emergency Central Lighting Inverter

## Input Voltage:

208Y/120 or 480Y/277VAC  
(-20% to +15%)

## Output Voltages:

208Y/120 or 480Y/277VAC

## Output Freq. (Inverter Operation):

60 Hz  $\pm$ 0.5 Hz

## Voltage Regulation:

$\pm$ 3%, Regulated within  
CBEMA curve

## Output Wave Form:

Sine-Wave < 5% THD.

## Cabinet Sizes:

39"W x 18"D x 68"H



39"

68"

18"

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

HID  
Incandescent  
Fluorescent

Small Footprint  
24"Wx28"Hx15"D,  
Lightweight,  
Sinewave  
Output,  
Front Access  
and Easy  
Installation

Product offered  
in 0.7 P.F. for  
VA and KVA

## STANDARD FEATURES

- Low Profile Compact Cabinet
- Single Phase, Full Range Voltage Regulation
- AC Power ON Indicator
- Battery ON Indicator
- Charger ON Indicator
- DC Battery Switch
- AC Line Switch
- Test Button
- T.V.S.S.

## APPLICATIONS

- H.I.D.
- Incandescent
- Fluorescent
- H.P.S.

## OPTIONS

- Auto/Isolation Transformers
- Output Circuit Breakers

- Listed to UL1778 UPS and UL924 Lighting Standards, by CSA.
- 3, 5, & 7.5 kVA in one cabinet
- 7.5(kW), 10, 12.5, & 15 kVA/KW one inverter and only one battery cabinet
- Multiple voltages factory selectable
- Transformerless Technology same voltage In & Out
- Battery management system
- Battery exerciser
- True no break power to the load
- LCD panel for monitoring continuous self diagnostic
- Seismic rated with bracket kit.
- RS232 & RS485 Ports
- 90% plus Efficiency
- Pulse width modulated (PWM) generator compatible
- Sinusoidal wave
- Incandescent, Fluorescent, HID, HPS
- Power factor & energy efficient ballast.
- Remote Monitoring (optional)
- Low Voltage Disconnect (LVD)

- Listed to UL1778 UPS and UL924 Lighting Standards, by CSA.
- Incandescent, Fluorescent, HID, HPS
- Power Factor & Energy Efficient Ballast
- 90% Efficiency
- Sinusoidal Waveform
- Pulse Width Modulated (PWM)
- Generator Compatible
- LCD Panel for Continuous Self Diagnostics
- Modular Assembly for Ease of Installation
- Transformerless Technology
- Battery Exerciser
- Double Conversion Technology
- Stackable Cabinets
- Low Voltage Disconnect (LVD)
- Seismic Rated with Bracket Kit (Optional)
- Remote Monitoring Optional
- RS232 & RS485 Ports
- 90 minute Run Time @ 100% Load
- 10 year Pro-Rated Maintenance Free Batteries
- Standard Internal Maintenance Bypass Switch

# HEU

**Outdoor/Hostile Environment  
Single Phase, 3-20 KVA  
Central Lighting Inverter**

Built like a tank, the HEU is designed for hostile environments. Proven over nine years in the traffic industry, the HEU is now conquering outdoor and harsh areas for lighting inverter applications. Tamperproof, gasketed, heavy-duty enclosure withstands weather, hostile environs and vandalism.



## Applications

- Hostile Environments, Outdoor & Remote Locations
- Tunnels & Bridges, Stadiums, Prisons, Ports, Airports, Parking Garages
- Roof Top Locations, Damp or Wet Locations
- Homeland Security, Extreme Temperature Areas

## Features

- Heavy-duty, Weatherproof NEMA 3R Enclosure in Steel (painted), natural Aluminum or Stainless Steel
- Tamperproof, triple locking design
- Listed to UL924 Lighting & UL1778 UPS std, by CSA
- Incandescent, Fluorescent, HID lamps
- Power Factor Corrected Front End
- Pulse Width Modulated (PWM) design with Sine Wave output
- 3 stage temperature-compensated Battery Charger
- Optional Strip Heater with adjustable thermostat
- Internal Maintenance Bypass Switch
- Lightning Arrestor/Surge Suppressor
- Optional Remote Monitoring

## Monitor 2000

**The Ultimate Monitoring System  
for Lighting Inverters**



Monitor 2000 offers the most advanced monitoring and reporting capabilities on the market for Central Lighting Inverters. Designed for unattended or remote locations, and for applications requiring detailed status reports and instantaneous annunciation to multiple contacts. Available as an option for all Crucial Power Inverters.

### Features include:

- Fully Programmable, Microsoft Windows-based system
- Convenient IBM PC programming via local or serial port or modem, with software included.
- Real time clock provides time-stamped data and report scheduling
- Monitors 8 functions, including normally-on or normally-closed contacts, runtime accumulator, pulse count, AC power, battery condition, room temperature, Inverter temperature, and custom input
- LED status indicators
- Sends status reports and alarm conditions automatically and on programmable schedule to up to 32 assigned destinations
- Reports sent via e-mail, phone, fax, pager, and modem
- Data can be plotted in graphs, bar charts, pie charts, custom formats
- Data logger can store over 32,000 input readings
- All logging data retrievable on demand, locally or remotely
- 120 volt, 10 watts, with integral Nicad battery back-up (15 hours)
- Compact 7"(H) x 11.25"(W) x 1.75"(D), lightweight (3 lbs.) unit mounts inside cabinet for security

 **CRUCIAL POWER PRODUCTS**

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CPP6188-5/05/06

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**Full  
Line of  
Lighting  
Inverter  
Products**

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