

With Flexbility and Ease of Customization to Suit Your Particular Application Requirements



**The Experts' First Choice** 

# FEATURES OF ATHENA UPS

## TRUE GALVANIC ISOLATION

**DESIGN** ensures that the AC output is isolated from the input under all modes of operation. Using an isolation transformer placed at the output can solve poor input grounding and ground leakage current, can be tied to any potential provided on site, and can attenuate noise

#### PROTECTION AGAINST MISUSE

Athena UPS's friendly design, different from the strict operation procedures of other brands, prevents any damage from operational mistakes.

## **OPERATING ENVIRONMENT**

The UPS can accompodate extreme environments (temperature, humidity, altitude, shock, or contamination)

#### **PEDLINDANT POWER SUPPLY**

Batteries are equipped so that no matter what happens to the utility power, there will be AC output.

### ACCEPTS WIDE INPUT RANGE

The UPS can work effectively under an unstable AC source.

#### DUGGEDNESS

Sturdy and strong cabinet construction

#### COLD START FUNCTION

The UPS can be cold started without an AC source, which can provide emergency

### INTELLIGENT FAN SPEED CONTROL

increases the fan life expectancy and reduces audible noise by reducing fan speed under light load.

### ADVANCED TECHNOLOGY

Utilize DSP, IGBT and static switching technology to increase the reliability and efficiency of the UPS.

PLUG AND PLAY MODULAR DESIGN permits easy maintenance and quick service and minimizes the time required for repairs.



### INTELLIGENT CONTROL PANEL WITH LED WARNINGS



The friendly user interface makes the UPS easy to use.

# **MULTI-CPU DESIGN AND** SOFTWARE/HARDWARE COOPERATE CONTROL make the

system extremely reliable and easy for customization and modification to suit particular application requirements.

### INDIVIDUALLY CONTROLLED INVERTER FOR EACH PHASE prevents characteristics from being

affected even under 100% unbalance load



## INTELLIGENT CHARGER WITH **HUGE CHARGING POWER** prolongs

battery life expectancy. By providing a large charging power (selectable), the UPS can charge battery banks that provide up to 8 hours of back-up time without adding an extra charger.

# REASONABLE HEAT DISSIPATION PASSAGE DESIGN

Because the control circuitry and power circuitry are physically separated, the SFC system can operate under harsh environments.

# PROTECTION AGAINST DETACHING AND FLOATING OF THE NEUTRAL INPUT POWER SUPPLY

ensures the safety and stability of the UPS power output.

Plug and Play Module in Place



### INTELLIGENT AND SAFE BATTERY TEST (OPTIONAL) tests the battery

without risk of output AC failure in case of dead battery.

### 12-PULSE FULL CONTROLLED RECTIFIER (OPTIONAL) reduces the

total harmonic distortion at the input.

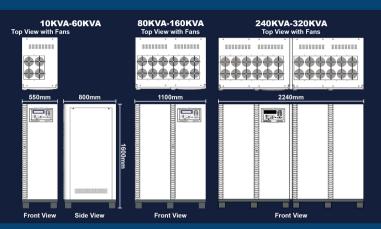
### N+1 PARALLEL OPERATION (OPTIONAL)

 No adjustments necessary on the site. -No extra parallel cabinet needed. Higher endurance for dynamic input voltage and frequency.

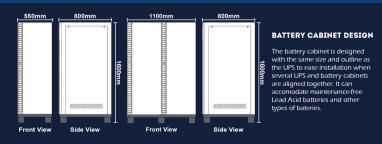
### INPUT HARMONIC FILTER (OPTIONAL) reduces T.H.D. (Total

Harmonic Distortion) of input current.

# **DIMENSIONS OF UPS**



# **BATTERY CABINETS FOR UPS**



550 (W) x 1600 (H) x 800 (D) mm cabinet: 12V 26Ah x 29 pcs, or 12V 26Ah x 58 pcs (2 strings) 1100 (W) x 1600 (H) x 800 (D) mm cabinet: 12V 75Ah x 29 pcs, or 12V 88Ah x 29 pcs, or 12V 100 Ah x 29 pcs

# WEIGHT OF CABINETS WITH BATTERIES INSTALLED

12V 26Ah x 29 pcs x 1 string is about 360 kgs. 12V 26Ah x 29 pcs x 2 strings are about 620 kgs. 12V 75Ah x 29 pcs x 1 string is about 1 075 kgs. 12V 88Ah x 20 pcs x 1 string is about 1 185 kgs. 12V 100Ah x 29 pcs x 1 string is about 1 325 kgs.

# PERIPHERAL OPTIONS FOR ATHENA UPS

### UPSCAN





A remote control panel with LCD screen and LEDs. This handheld display can monitor 1-99 SFCs with RS-485 connected ed in series from as far as 1 000 meters from UPS.

### 3 PHASE SNMP CARD



the UPS through a web browser and Java applet, providing three phase data acquisition in real time.

### UPSCOM



can provide real-time three phases information of UPS connected on the line and monitor several UPSs with one PC.

### **EMERGENCY POWER OFF**



can be installed locally or remotely from the UPS for stopping the UPS output in the case of an emergency.

MODBUS INTERFACE is available upon request for industrial automation control.

# MECHANICAL OPTIONS FOR ATHENA UPS

### TOP CABLE ENTRY



allow top and/or bottom cable entry into the unit. Standard unit comes with bottom cable entry.

# SHOCK AND VIBRATION ABSORPTION



### DRIP SHIELDING PAN



### SEISMIC TIE-DOWN ANCHOR





Anchors on both sides

Anchors the UPS to the mounting surface so that in the case of an earthquake, the unit will not slide across the floor or be knocked over.

Tie-down anchor is available for standard chassis with legs or with casters.

# CASTERS

# ENCLOSURE BOTTOM SKIRTING



For temporary movement across the floor to the final installation location.



Closes off the base

# APPLICATIONS FOR CRITICAL POWER REQUIREMENTS

### MEDICAL IMAGING SYSTEMS







X-Rays, CT Scans, MRI Scans, TomoTherapy, Cath Labs

# OFF-SHORE OIL DRILLING

# RAILROADS & TRANSPORTATION







SHIPBOARD AND SHORE POWER INDU

INDUSTRIAL PROCESS & CONTROL

TELECOMMUNICATION







Supplying power to ships from the shoreline Powering ship building yards

### **AVIATION POWER**

WEAPON CONTROL

MILITARY & DEFENSE







Aviation Ground Support Units; 400 Hz

400 Hz Power

400 Hz Power