

# Rugged Half-Rack UPS™ AHB1001

**SMALLER FOOTPRINT. LIGHTER WEIGHT. HIGHER POWER DENSITY.**

## Power Has Never Been More Portable

Acumentrics uses advanced technologies in power conversion and high-performance digital control to optimize the SwaP of the **1000W** Rugged ½ Rack UPS™ family.

This unit offers a new level of power portability to military applications in a narrow ½ Rack 1U chassis, providing significant savings of rack space and reduced weight.

**1000 Watts DC** provides the required autonomous power needed by small form factor networking and compute platforms that are supporting "At the Quick Halt" and "On the Move" mounted and dismounted tactical missions.

**Agnostic power and transit case compatibility;** Designed to work with Small Form Factor Modules: DTECH, KLAS, PACSTAR, Mercury, HP, and others along with transit cases: Ameripack, ECS, Desapro and others

## Light in Weight, Not in Power

Despite being lightweight, the Rugged Blade UPS™ provides extremely high-power density. Offering 1000W of DC output power in half the space of a traditional UPS, it is one of the most powerful and compact UPS products on the market. The system is rated to provide 1000W of continuous DC power from -20°C to 50°C

## Power Factor Corrected

This UPS accepts a wide range of voltages and frequencies, while providing clean, reliable DC power as well as seamless switching from AC shore power to DC power of the internal battery.

## AC Input with Automatic Power Selection

In the event of loss of AC power, the internal battery seamlessly provides back up power if AC input power is lost.

## RUPS Transfer Time

These units transfer seamlessly without interrupting the load quality and have zero switch over time.

## User-Replaceable Battery Pack

The ½ Rack RUPS™ features Lithium Iron Phosphate (LFP) batteries, enclosed in a user-replaceable battery pack for rapid hot-swap field replacement. The LFP battery pack provides a lighter weight energy source with longer shelf life and cycle life.

## Accepts True Worldwide Input™

The Rugged Blade UPS™ accepts AC input power from 100 VAC to 264 VAC / 47 Hz to 63 Hz.



Reliability of networked communications and data is dependent on rugged mission critical power supplies. Acumentrics' powerful, portable COTS ½ Rack Rugged UPS™ provides a new level of power portability to a wide range of military applications and environments. This off the shelf COTS UPS is packed with technology that provides high power density, continuous output power, as well as ease of installation and maintenance.



# Rugged Half-Rack UPS™ AHB1001

**CONTINUOUS OUTPUT POWER: 1000W**



*The Acumentrics 1/2 Rack UPS  
Shown in a 1/2 Rack Transit case*

### INPUT SPECIFICATIONS

**AC Voltage:** 100-264 VAC, single phase  
**Frequency:** 47-63 Hz  
**AC Circuit Breaker Rating:** 20A

### OUTPUT SPECIFICATIONS

**DC Continuous Power:** 1000W @ 29VDC  
**DC Max Current:** 35A  
**DC Voltage:** 29 – 20 VDC

### ENVIRONMENTAL

#### Operating Temperature:

-20°C to 50°C\*

\*Some derating required at extremes

#### Storage Temperature:

-40°C to 60°C

#### Storage Temp. for Optimal

**Battery Life:** 10°C to 25°C

**Humidity:** up to 95% (non-condensing)

**Max. Altitude:** 15,000 ft operating;  
40,000 ft non-operating

### BATTERY SPECIFICATIONS

**Battery Type:** LFP

#### Typical Run Times:

20 minutes 400W load

6 minutes 1000W load

**Recharge Time:** 3 hours to 90% of  
present capacity



### MECHANICAL SPECIFICATIONS

Rack Mount size (H x W x D): 1.75" x 9.4" x 15"

Envelope size (H x W x D): 1.75" x 9.4" x 17"

Weight: 12 Lbs.

### COMMUNICATION PORT

9-pin (DB-9) for user interface and remote monitoring and SNMPv3 via Ethernet

### MIL STANDARDS

The 1/2 Rack Rugged UPS™ is a COTS Rugged Mission Critical Power System for both Military/Commercial customers and is designed to meet the following MIL standards:

**EMC:** MIL-STD 461F: CS101, CS114, CS115, CS116, CS118, RS103

**Environmental:** MIL-STD-810G, Method 514.6, Category 20, Figure 514.6C-3, Table 514.6C-VI, Method 516.6, Procedure I, Section 4.6.2.3 and Table 516.6-I, Ground Equipment, Method 516.8 - Shock

### MODEL:

**AHB1001R281KXNLI**

AC in, DC Out 20-29VDC, 1000W, LFP Battery, SNMP



*The Acumentrics 1/2 Rack  
UPS provides the same  
1000W of power in less  
than have space of a  
full-size UPS.*

**RUGGED  
RELIABLE  
POWER™**



Front Panel control and indicator panel



Rear Panel with AC IN, DC OUT, Extended Run Battery, Communications, and SNMP Interfaces

### Acumentrics Rugged UPS™:

- The Benchmark for Rugged Design
- Dedicated Product Support – Rapid Configuration and Customer Response
- For Use in Harsh and Combat Environments – Certified to Military Standards