



GROUND / MOBILE



AIRBORNE & GCS



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 output provides the required autonomous power needed by small form factor networking and computer 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, Gemstar 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 55°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 switches to provide back up power to continue operation.

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.

Dual-DC Output

The UPS is able to provide DC output to (2) loads simultaneously via (1) connector

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*



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

**RUGGED
RELIABLE
POWER™**

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: 20 – 29 VDC

ENVIRONMENTAL

Operating Temperature:

-20°C to 55°C

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

I/O CONNECTORS

UPS AC Input Connector:

IEC 60320 C14

UPS DC Output Connector:

MS3470L14-4S

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 (RJ-45)

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 461G: CE101, CS101, CS114, CS115,
CS116, CS118, RE102, RS103

Environmental: MIL-STD-810H: Method 516.8
(Shock), MIL-PRF-28800F: Section 3.8.4.1 Class 3,
Table 3 (Random Vibration), Section 3.8.4.2 Class 3,
Table 4 (Sine Vibration)

MODEL:

AHB1001RK26NLI

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



Front Panel control and indicator panel



Rear Panel with AC IN, DC OUT,
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