

Rugged Half Rack UPS AWB1252-AC

SMALLER FOOTPRINT. LIGHTER WEIGHT. HIGHER POWER DENSITY.

Power Has Never Been More Portable and Configurable

The **Acumentrics AWB Series** represents the next generation of rugged uninterruptible power solutions within our proven Half Rack UPS family. The **AWB1252 Half Rack UPS** delivers the same intelligent power management, high efficiency, and configurable versatility as our full-width **ANG1251/1501** 1U UPS—now in a compact 2U half-rack form factor designed for applications where space and weight are at a premium.

Engineered for demanding military, industrial, and commercial environments, the AWB1252 offers **full-featured DC or AC input and output capability**, enabling seamless integration across a wide range of power architectures.

The AWB1252 Half Rack UPS features agnostic power compatibility and flexible transit case integration. It is designed to operate seamlessly with small form factor modules from **Dell, HPE, Cubic DTECH, KLAS, PACSTAR, Mercury**, and others. It also fits transit cases from **Ameripack, ECS, Desapro, Gemstar**, and more.

Light in Weight, Not in Power

Despite being lightweight, the Half Rack UPS provides extremely high-power density. Offering 1000W of AC output power in half the space of a traditional UPS, it is one of the most powerful and compact UPS products on the market.

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 external input or the internal battery.

Dual Input with Automatic Priority

The AWB1252 with AC or DC input prioritizes AC shore, then DC input and then internal battery power sources. In the event of loss of AC power, the external DC input takes precedence over the internal battery, which provides back up power if both AC and DC 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

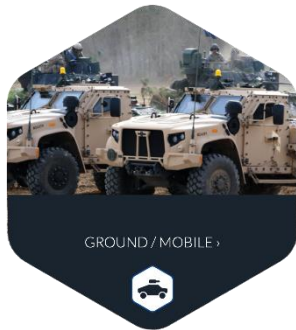
The Half Rack UPS features Lithium Iron Phosphate (LFP) batteries, enclosed in a user-replaceable battery pack for rapid hot-swap field replacement. The LFP battery pack provides a lighter weight energy source with longer shelf life and cycle life.

Accepts True Worldwide Input™

The Half Rack UPS accepts AC input power from 80 VAC to 265 VAC / 47 Hz to 440 Hz.

Optional Advanced Paralleling

Advanced N+1 paralleling makes the AWB1252 the building block in a modular system up to 10KVA and ensuring redundancy, fault tolerance with no system downtime – essential for mission critical applications.



Reliability of networked communications and data is dependent on rugged mission critical power supplies. Acumentrics' powerful, portable COTS Half Rack 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 AWB1252-AC

CONTINUOUS OUTPUT POWER: 1250VA/1000W



INPUT SPECIFICATIONS

AC Voltage: 80-265 VAC, single phase
Frequency: 47-440 Hz
AC Circuit Breaker Rating: 20A
DC Voltage: 20-32V

OUTPUT SPECIFICATIONS

AC Continuous Power: 1250VA/1000W*
Max Load Crest Factor: 2.15
AC Voltage: 115VAC \pm 5%
AC Frequency: 60 or 50Hz \pm 0.5Hz
AC Waveform: Sinusoidal
*Linear derate to 1KVA/800W @80-90VACin

ENVIRONMENTAL

Operating Temperature:
-20°C to 50°C (w/battery)**
-40°C to 50°C (w/o battery)**
**Derating applies above max temp
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:
13 minutes 400W load
5 minutes 1000W load
Recharge Time: 1.5 hours to 90%

I/O CONNECTORS

UPS AC Input Connector:
CB2-16-10PC
UPS DC Input Connector:
CB2-20-4PS
UPS AC Output Connector:
CB2-16-10SC
UPS Ext Batt Connector:
CB2-20-14SC

MECHANICAL SPECIFICATIONS

Rack Mount size (H x W x D): 3.5" x 9.4" x 15"
Envelope size (H x W x D): 3.5" x 9.4" x 17"
Weight: 20 Lbs.

COMMUNICATION PORT

9-pin (DB-9) for user interface and remote monitoring and SNMPv3 via Ethernet (RJ-45)

MIL STANDARDS

The AWB1252 Half 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-461

Environmental: MIL-STD-810

28VDC for MIL Vehicles: MIL-STD-1275

Airborne Electronics: DO-160G, MIL-STD-704

Shipboard: MIL-STD-1399 (300A)

CE Certification: Coming soon

MODEL:

AWB1252U61XNLI

AC/DC IN, AC OUT, 1000W, External Battery Option, LFP Battery, SNMP

Note: Other AWB1252 configuration options available upon request



**RUGGED
RELIABLE
POWER™**



AWB1252 Rear Panel View

Acumentrics Half Rack UPS:

- The Benchmark for Rugged Half Rack Design
- Dedicated Product Support – Rapid Configuration and Customer Response
- For Use in Harsh and Combat Environments