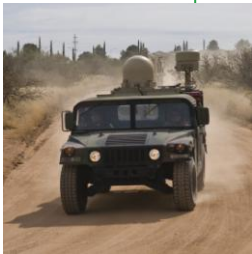


A NEW LEVEL OF POWER
Rugged Blade UPS™ 1501

SMALLER FOOTPRINT. LIGHTER WEIGHT. HIGHER POWER DENSITY.



**RUGGED
RELIABLE
POWER™**

Power Has Never Been More Portable

Acumentrics uses advanced technologies in power conversion, high performance digital controls and an innovative high frequency transformer to create the Rugged Blade UPS™ family

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

Light in Weight, Not Power

Despite being lightweight, the Rugged Blade UPS™ provides extremely high power density. Offering 1250W 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. The system is rated to provide 1250W of continuous power from -20°C to 50°C (with LFP battery pack option). Some derating occurs at the extreme limits of specifications. The maximum output power of 1250W requires an AC input voltage ≥100VAC. Power output 1000W with AC input voltage ≥80VAC.

Power Factor Corrected

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

On-Line Double Conversion

The Rugged Blade UPS™ creates DC voltage which is then converted to the needed AC output voltage, protecting sensitive equipment from input surges, spikes, brownouts, blackouts and noise.

Flo-Thru™ Technology

With Acumentrics' unique Flo-Thru™ technology and heatsink tunnel design, this UPS delivers maximum protection to components from blown precipitation, airborne particles and other contaminants. Advanced fan controls provide the correct airflow for cooling, while minimizing noise and extending fan life.

Optional Advanced Paralleling

Advanced N+1 paralleling makes the Rugged Blade UPS™ the building block in a modular system for up to 2500W and ensuring redundancy, fault tolerant with no system downtime – essential for mission critical applications.

AC Input with Automatic Power Selection

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

RUPS Transferring

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

User-Replaceable Battery Pack

The Rugged Blade UPS™ features LFP or low maintenance, valve-regulated lead acid (VRLA) 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 80 VAC to 265 VAC / 47 Hz to 440 Hz.

Acumentrics "Battery Saver Spacers™

(Patent Pending)" are used to fasten a partially removed battery pack so that it is positively secured to the front panel of the UPS but electrically disconnected. This insures that there is no current draw from the battery into the UPS while it is being transported or stored in a warehouse.



Reliability of communications is dependent on rugged power supplies. Acumentrics' powerful, portable Rugged Blade UPS™ than most UPS products, bringing a new level of power portability to a wide range of military applications and environments. This double on-line conversion unit is packed with technology that provides high power density, continuous output power, as well as ease of installation and maintenance.

V2 COMPLIANT TO CHS4
Rugged Blade UPS™ 1501

CONTINUOUS OUTPUT POWER: 1500VA/1250W

INPUT SPECIFICATIONS

AC Voltage: 80-265 VAC, single phase
Frequency: 47-440 Hz
AC Circuit Breaker Rating: 20A
Power Factor: 0.99 typical
Efficiency with 1000W Load:
 AC η = 0.83

OUTPUT SPECIFICATIONS

Continuous Power: 1500VA/1250W
 parallel units for greater load carrying capability
Load Crest Factor: 2.15 continuous
Peak Current: 25A (1250W AC output)
AC Voltage: 115 VAC +/- 5%
AC Frequency: 60 Hz +/- 0.5 Hz
AC Waveform: Sinusoidal
Total Harmonic Distortion (THD):
 <1.5% with 1250W resistive load
1250W Output power: ≥100VAC input, temp. ≤50°C
1000W Output power: ≥80VAC input, temp. ≤50°C



OPTIONS

- **AC Output:** 230 VAC 50 Hz Output
- **Rackmount Accessories**
- **Parallel Operation for Loads up to 2500W**
- **Simple Network Management Protocol Version - V3**
- **Shipboard** – Double-pole circuit breaker approved for use with shipboard Delta power

STANDARDS

The Rugged Blade UPS™ is tested and certified to meet the following standards:

- Shock:** Packaged MIL-STD-810-G
- Vibration:** MIL-STD-167-1
MIL-STD-810-G
- Shipboard:** MIL-STD-1399
- Environmental:** MIL-STD-810-G



ANB1501
Front Panel

ENVIRONMENTAL

Operating Temperature:
 with LFP battery: -20°C to 50°C
 with Lead Acid battery: -20°C to 50°C
 w/o battery: -30°C to 65°C
Storage Temperature: -32°C to 66°C
 w/o battery: -40°C to 70°C
Humidity: 5% to 95% (non condensing)
Altitude: 0 to 15,000 ft operating;
 0 to 40,000 ft non-operating
Rain: Operates in blown precipitation

MTBF: >75,000 hours over temp. range (max 50°C)

BATTERY SPECIFICATIONS

Battery Type: LFP or low maintenance VRLA
Typical Run Times: LFP 8m, VRLA 3m
Recharge Time: LFP 3 hours, VRLA 4 hours,

MECHANICAL SPECIFICATIONS

Chassis Size (H x W x D): 1.73" x 17" x 21"
Envelope size (H x W x D): 1.73" x 19.5" x 24.75"
Weight: w/o battery pack: 20 lbs
 with lead acid battery: 33 lbs
 with LFP battery: 28 lbs

COMMUNICATION PORT

9-pin (DB-9) for user interface and remote monitoring;
 SNMP is optional

Output Connectors (Base Model)

up to 5 x NEMA 5-20R, 4 critical, 1 non-critical

MODELS All Rugged-UPS™ models are available in shipboard configuration, parallel configuration and optional DC output configurations.

- A N B 150 1 R i S P N Y L a C #**
- C#** = Bundled Product
 - La** = Lead Acid Battery; **Li** = LFP Battery
 - Y** = Bypass
 - N** = SNMP; **W** = USB
 - P** = Parallel
 - S** = Shipboard
 - i** = 230 VAC 60 Hz Option; **ia** = 230 VAC 50 Hz Option
 Nothing = 115 VAC (standard)
 - R** = AC Input
 - 1** = 1U; **2** = 2U
 - 150** = 1500VA / 1250W; **125** = 1250VA / 1000W
 - Color option:
G = Gray (standard); **B** = Black; **T** = Tan
 - C** = Current Model; **N** = New Generation
 - A** = Acumentrics

Note: When a particular designation is missing from the part number then that option is NOT present in the device.

Currently Available models

ANB1501RNLIC1 base model, back panel



ANB1501RPNLIC1 N+1 fault tolerant model



Contact Acumentrics to discuss customized solutions.



RUGGED RELIABLE POWER™

Acumentrics Rugged Blade UPS™:

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

