

ANew LEVEL OF POWER

Rugged Blade UPS™ 1501

SMALL FOOTPRINT. LIGHTWEIGHT. HIGH POWER DENSITY.

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™.

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 can provide 1250W of continuous power from -40°C to 50°C (with LFP battery pack option).

Power Factor Corrected

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

On-Line Double Conversion

The Rugged Blade UPS™ creates DC voltage which is then converted to the needed AC or DC 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 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 up to 3000 VA and ensuring redundancy, fault tolerance with no system downtime – essential for mission critical applications.

RUPS Transfer Time

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

User-Replaceable Battery Pack

The Rugged Blade UPS™ features Lithium Iron Phosphate (LFP) or 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.

**RUGGED
RELIABLE
POWER™**

Reliability of communications is dependent on rugged power supplies. Acumentrics' powerful, portable Rugged Blade UPS™ brings 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



Front Panel

Contact
Acumentrics
to discuss
customized
solutions.

**RUGGED
RELIABLE
POWER™**

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 1250W Load:
AC in= 82%

OUTPUT SPECIFICATIONS

Continuous Power: 1500VA/1250W ≥ 100 VAC
input, 1000W ≥ 80 VAC input
parallel units for greater load carrying capability
Max Load Crest Factor: 2.15
AC Voltage: 115 VAC +/- 5%
AC Frequency: 60 Hz +/- 0.5 Hz
AC Waveform: Sinusoidal
Total Harmonic Distortion (THD):
<2.5% with 1250W resistive load

ENVIRONMENTAL

Operating Temperature: -20°C to 50°C
Storage Temperature: -40°C to 66°C
w/o battery: -45°C to 70°C
Humidity: up to 95% (non-condensing)
Max. Altitude: 15,000 ft. operating;
40,000 ft. non-operating

BATTERY SPECIFICATIONS

Battery Type: LFP or low maintenance VRLA
Typical 1000W Run Time: LFP 10 minutes,
VRLA 4 minutes
Recharge Time: LFP 3 hours, VRLA 4 hours

MECHANICAL SPECIFICATIONS

Chassis Size (H x W x D): 1.75" x 17" x 21.75"
Envelope size (H x W x D): 1.75" x 19.5" x 24.6"
Weight: w/o battery pack: 20 lbs.
with VRLA: 33 lbs. with LFP battery: 28 lbs.

COMMUNICATION PORT

9-pin (DB-9) for user interface and remote
monitoring; SNMP v3 is optional

AC OUTPUT CONNECTORS

ANB1501RNLIC1 Base model:
Up to 5 NEMA 5-20R, 4 critical, 1 non-critical
ANB1501RPNLIC1 N+1 fault tolerant model:
Up to 3 NEMA 5-20R, 2 critical, 1 non-critical

OPTIONS

- **AC Output:** 230 VAC 50Hz Output
- **Rackmount Accessories**
- **Parallel Operation for Loads up to 3kVA**
- **Simple Network Management Protocol V3**
- **Shipboard** – Double-pole circuit breaker
approved for use with shipboard power

STANDARDS

The Rugged Blade UPS™ is designed to meet the
following standards:

EMC: MIL-STD-461-F: RE102, CE102, CS101, CS114,
CS115, CS116, RS103

Environmental: MIL-STD-810-G: 500.4, 507.4, 514.6,
516.6

MIL-HDBK-704: SAC101, SAC102, SAC103, SAC104,
SAC105, SAC106, SAC107, SAC108, SAC109, SAC110,
SAC201, SAC301, SAC302, SAC303, SAC401, SAC601,
SAC603

RTCA/DO-160: 4.5.1, 4.5.2, 4.5.3, 4.5.4, 4.6.1, 4.6.2,
4.6.3, 5.0.2, 6.0.2, 7.2, 7.3.1, 7.3.2

Shipboard: MIL-STD-1399 section 300A



ANB1501RNLIC1, 4 Critical AC Out, 1 Non-Critical AC Out



ANB1501RPNLIC1 N+1 fault tolerant model

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**

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Specifications may change
without notification



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