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.

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.
**RUGGED RELIABLE POWER™**

**POWER™**

**RELIABLE**

**RUGGED**

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**V2 COMPLIANT TO CHS4**

**Rugged Blade UPS™ 1501**

**CONTINUOUS OUTPUT POWER: 1500VA/1250W**

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**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 ≥100VAC input, 1000W ≥80VAC input
- **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
- **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

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**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

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**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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**Contact Acumentrics to discuss customized solutions.**