RUGGED
RELIABLE
POWER™

ANEW LEVEL OF POWER

Rugged Blade UPS™ 1251

SMALL FOOTPRINT. LIGHTWEIGHT. HIGH POWER DENSITY.

Acumentrics
TRUSTED POWER INNOVATIONS®

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 1000W of AC or 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 can provide 1000W of continuous power from -20°C to 60°C (with LFP battery pack option). Some derating required at the extreme limits of specifications.

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 10kVA and ensuring redundancy, fault tolerance with no system downtime – essential for mission critical applications.

Dual Input with Automatic Priority

A Rugged Blade UPS™ 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.

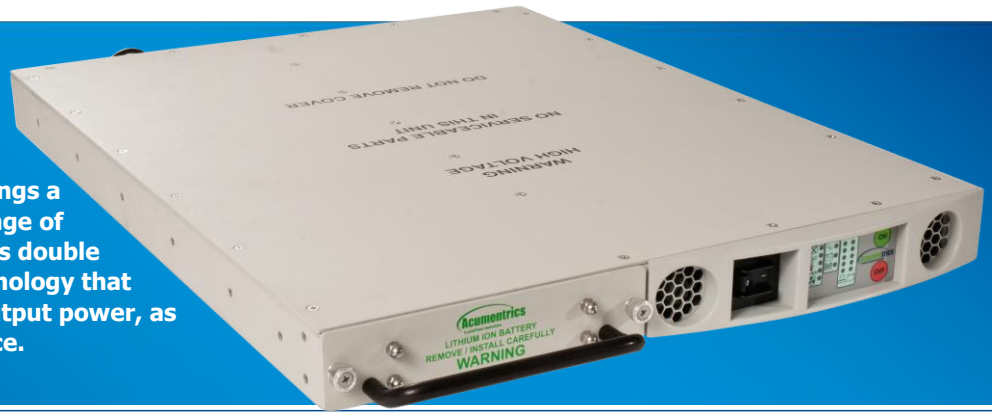
User-Replaceable Battery Pack

The 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, or DC input from 20 VDC to 32 VDC.

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.



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Specification may change without notification

Acumentrics, Inc.
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Made in USA

V2 COMPLIANT TO CHS4

Rugged Blade UPS™ 1251

CONTINUOUS OUTPUT POWER: 1250VA/1000W

Acumentrics
TRUSTED POWER INNOVATIONS®

Front Panel

Rear Panel

INPUT SPECIFICATIONS

AC Voltage: 80-265 VAC, single phase
Frequency: 47-440 Hz
AC Circuit Breaker Rating: 20A
DC Voltage: 20-32 VDC
Maximum DC Input: 80A
Power Factor: 0.99 typical
Efficiency with 1000W Load:
AC in= 83% DC in = 82%

OUTPUT SPECIFICATIONS

Continuous Power: 1250VA/1000W
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% with 1000W resistive load

ENVIRONMENTAL

Operating Temperature: -20°C to 50°C*
Without battery: -32°C to 50°C
With battery: -20°C to 50°C
*Battery operation limited below 0°C
Storage Temperature: -32°C to 60°C
w/o battery: -40ºC to 70ºC
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 1KW Run Time: LFP 10 minutes, VRLA 4 minutes
External Battery Pack Run Times: LFP 30 minutes, VRLA 12 minutes
Recharge Time: LFP 3 hours, VRLA 4 hours

MECHANICAL SPECIFICATIONS

Chassis Size (H x W x D): 1.75" x 17" x 21"
Envelope size (H x W x D): 1.75" x 19.5" x 24.75"
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

OPTIONS

- **DC Output: 24, 28 or 48 VDC Output**
  DC only unit delivers up to 1000W of DC power.
  Units with AC and DC have up to 500W of DC with remaining output AC (Total power DC+AC <= 1000W).

  Set Point Accuracy: +/- 2.3% at 50% load
  Load Regulation: + 2% at 0% Load
  - 2% at 100% Load
  Other outputs available upon request.

- **Optional AC OUTPUT:**
  Continuous Power: 1250VA/1000W
  Parallel units for greater load carrying capability
  Max Load Crest Factor: 2.15
  AC Voltage: 230 VAC +/- 5%
  AC Frequency: 50 Hz +/- 0.5 Hz
  AC Waveform: Sinusoidal
  Total Harmonic Distortion (THD): <1.5% with 1000W resistive load

- **Rackmount accessories**
- **External DC Input**
- **External Battery Pack(s)**
- **Parallel Operation for Loads up to 10kVA**
- **Simple Network Management Protocol V3**
- **Shipboard –** Double-pole circuit breaker approved for use with shipboard Delta 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, 506.5: (Consult factory for this option.)

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

Note: Consult factory for actual configuration and part number.

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