

A NEW LEVEL OF POWER

CE Certified for Global Power Applications

Rugged Blade UPS™ 1501 CE

SMALL 1U FOOTPRINT. LIGHTWEIGHT. HIGH POWER DENSITY.

Auto-ranging Rugged UPS that is CE Certified

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 1250 W 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 1250 W of continuous power from -20 °C to 55 °C, 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 power as well as seamless switching from AC shore power to the internal battery.

On-Line Double Conversion

The Rugged Blade UPS™ creates an isolated 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 airborne particles and other contaminants. Advanced fan controls provide the correct airflow for cooling, while minimizing noise and extending fan life.

Frequency Conversion for Aircraft Application

Acumentrics UPS's can be used as frequency converters for 400 Hz to 50/60 Hz or a DC output. Output frequency is user selectable to 50 or 60 Hz.

Optional Advanced Paralleling

Advanced N+1 paralleling makes the Rugged Blade UPS™ the building block in a modular system up to 3750 W 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.

Hot-Swappable Battery Pack

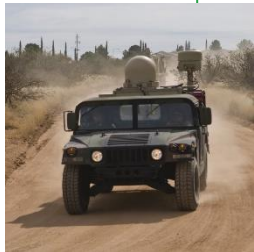
The Rugged Blade UPS™ features Lithium Iron Phosphate (LFP) or Valve-Regulated Lead Acid (VRLA) batteries, enclosed in a user-replaceable battery pack for rapid hot-swap field replacement. The LFP battery pack provides a lighter weight energy source with longer shelf life and cycle life.

Accepts True Worldwide Input™

The Rugged Blade UPS™ accepts AC input power from 80 Vac to 265 Vac / 47 Hz to 440 Hz.

3 Phase AC Input Supported

Acumentrics' Rugged Blade 1U UPS can support a balanced 3-ph input via a paralleled 3 UPS stack. 1 UPS each is tied to a 1-ph leg which the parallel N+1 cabling provides balancing/load sharing capability for the end user.



**RUGGED
RELIABLE
POWER™**



Need a *worldwide deployable* auto ranging rugged UPS that's *MIL and CE Certified* for your military and rugged industrial applications?

WHY COMPROMISE WHEN YOU CAN HAVE IT ALL WITH ACUMENTRICS COTS CE CERTIFIED RUGGED BLADE UPS™



Rugged Blade UPS™ 1501 CE

CONTINUOUS OUTPUT POWER: 1500 VA : 1250 W



INPUT		ANB1501 CE	
Rated Input Voltage	100 – 265 Vac		
Operating Input Range	200 – 265 Vac		
Frequency	47 - 440 Hz		
AC Breaker Rating	20 A		
Power Factor	0.99		
Efficiency @ Load	AC(in)=82%		

OUTPUT			
Continuous Power	1500 VA / 1250 W		
Load Crest Factor	2.15 (continuous)		
AC Voltage	115 or 230 V ± 5%		
AC Frequency	60 or 50 Hz ± 0.5%		
AC Waveform	Sinusoidal		

LOAD	Run Time (Minutes)	
	LFP	VRLA
250 W	53	33
500 W	28	14
750 W	18	8
1000 W	13	6
1250 W	10	2
Recharge Time	4 hours	5 hours

MECHANICAL		1U	
Chassis Size (H x W x D)	1.75" x 17" x 22" (45 x 432 x 554 mm)		
Envelope Size (H x W x D)	1.75" x 19.5" x 24.75" (45 x 495 x 629 mm)		
Weight (w/o battery)	20 lbs. (9.1 kg)		
w/ LFP	28 lbs. (12.7 kg)		
w/ VRLA	33 lbs. (15.0 kg)		

COMMUNICATION
SNMP v3 and RS-232

ENVIRONMENTAL	
Operating Temp.	-20 °C to 55 °C
Storage Temp.	-40 °C to 65 °C
Humidity	5% to 95% (non-condensing)
Altitude	Operating: 15,000 ft. 4,752 m
	Non-operating: 40,000 ft. 12,192 m

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STANDARDS
MIL-STD-810-G (Environmental, Shock, Vibration) 500.4, 500.5, 501.5, 502.5, 506.5, 507.4, 507.5, 510.4, 514.6, 514.7, 516.6
MIL-STD-461F (EMI/EMC) RE102, CE102, RS103, CS101, CS114, CS115 CS116, CS118
RTCA/DO-160G 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
MIL-HDBK-704-3 (Airborne) SAC101-110, 201, 301-303, 401, 601, 603
MIL-S-901-D grade A, class II, type B
CE Certified EN 62040-1, EN 62040-2, EN 50581
MIL-STD-1399 (Shipboard) Section 300A

OPTIONS

Consult Factory for other Options and Part Number Configuration

- AC Output: 230 V, 50 Hz
- Rackmount Accessories
- Parallel Operation for Loads up to 3750 W (3 UPS)
- Simple Network Management Protocol V3
- Shipboard – AC Output Unbonded Neutral
- Operational Transit Case (OTC)
- Fungus Mitigated Design – Includes PVC-Free Wiring and Conformal Coated Boards

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

