

A NEW LEVEL OF POWER

Rugged UPS™ 2500/3000

4U 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 UPS™.

This unit offers a new level of power portability to military applications in a 4U chassis.

Light in Weight, Not Power

The Rugged UPS™ provides extremely high-power density. Offering 2400 W of AC or DC continuous output 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 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 UPS™ creates an isolated 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 paralleling makes the Rugged UPS™ the building block in a modular system up to 21.6 kW, with no system downtime – essential for mission critical applications.

Dual Input with Automatic Priority

A Rugged 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

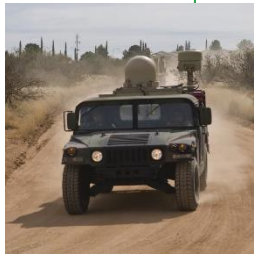
These units transfer seamlessly without interrupting the load quality and have zero switch over time.

Hot Swappable Battery Pack

The Rugged 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 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.



**RUGGED
RELIABLE
POWER™**

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



Rugged UPS™ 2500/3000

CONTINUOUS OUTPUT POWER: 2500 VA : 2000 W / 3000 VA : 2400 W

INPUT		ACG2500/3000
AC Voltage	80 - 265 V	
Frequency	47 - 440 Hz	
DC Voltage	22-32 V	
Max DC Current	120 A	
Power Factor	0.99	
Efficiency @ Load	AC(in)=86%; DC(in)=82%	

OUTPUT		
Continuous Power	3000 VA / 2400 W	2500 VA / 2000 W
Load Crest Factor	2.5 (continuous)	
AC Voltage	115 or 230 V ±5%	
AC Frequency	60 or 50 Hz ± 0.5%	
AC Waveform	Sinusoidal	

BATTERY	Run Time (Minutes)			
	LOAD	LFP	VRLA	LLFP
	600 W	48	33	71
	1200 W	23	14	33
	1800 W	16	8	23
	2400 W	11	6	17
	Recharge Time	4 hrs.	5 hrs.	6 hrs.

MECHANICAL		4U
Chassis Size (H x W x D)	7" x 17" x 21"	(178 x 432 x 533 mm)
Envelope Size (H x W x D)	7" x 18.5" x 23"	(178 x 470 x 584 mm)
Weight (w/o battery)	85 lbs. (38.6 kg)	
w/ LFP	103 lbs. (46.7 kg)	
w/ VRLA	135 lbs. (61.2 kg)	

COMMUNICATION
SNMP v3 or RS-232

ENVIRONMENTAL	
Operating Temp.	-20 °C to 55 °C
Storage Temp.	-40 °C to 65 °C
Humidity	5% to 95% (non-condensing)
Altitude	up to 15,000 ft. operating up to 40,000 ft. non-operating

STANDARDS
MIL-STD-810 (Environmental, Shock, Vibration) 500.5, 501.5, 502.5, 503.5, 506.5, 507.4, 509.7, 510.5, 514.5, 514.6, 516.4, 516.5, 516.6, 516.8
MIL-STD-461F (EMI/EMC) RE102, RS103, CE101, CE102, CS101, CS114, CS115, CS116
MIL-STD-1275-D 5.1.2.2, 5.1.2.3, 5.3.2.2, 5.3.2.4, 5.3.2.5
MIL-STD-1399 (Shipboard) Section 300A
Rain - Consult Factory for this option

- OPTIONS**
Consult Factory for other Options and Part Number Configuration
- **AC Output: 230 V, 50 Hz**
 - **DC Output: 24, 28, or 48 V**
DC only unit delivers up to 2400 W of DC power. Units with AC and DC have up to 1200 W of DC with remaining output AC (Total power DC+AC <= 2400 W).
 - **Rackmount Accessories**
 - **External DC Input**
 - **External Battery Pack(s)**
 - **Parallel Operation for Loads up to 21.6 kW (9 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**
 - **The Rugged UPS™ works best with:**



APB3001 PDU



ACG2500XRBP Extended Battery Chassis

**RUGGED
RELIABLE
POWER™**

Acumentrics Rugged 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**