

A NEW LEVEL OF POWER

Rugged UPS™ 1252/1625

2U 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 narrow 2U chassis, providing significant savings of rack space.

Light in Weight, Not Power

Despite being lightweight, the Rugged UPS™ provides extremely high-power density. Offering 1300 W 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 1300 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 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 11.7 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

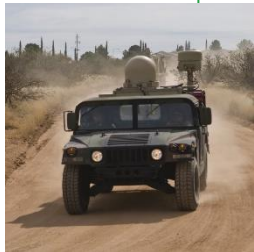
These units transfer seamlessly without interrupting the load quality and have zero switch over time.

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™ 1252/1625

CONTINUOUS OUTPUT POWER: 1250 VA : 1000 W / 1625 VA : 1300 W



INPUT		ACG1252/1625
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	1625 VA / 1300 W 1250 VA / 1000 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	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		2U
Chassis Size (H x W x D)	3.5" x 17" x 21"	(89 x 432 x 533 mm)
Envelope Size (H x W x D)	3.5" x 17" x 24.3"	(89 x 432 x 617 mm)
Weight (w/o battery)	45 lbs. (20.4 kg)	
w/ LFP	53 lbs. (24.0 kg)	
w/ VRLA	63 lbs. (28.6 kg)	

COMMUNICATION
SNMP v3 or RS-232 Serial

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-G (Environmental, Shock/Vibration, Noise) 500.5, 501.5, 502.5, 503.5, 506.5, 507.5, 510.5, 514.6, 516.6
RTCA/DO-160G (ESD, Environmental, Shock, Vibration) 4.A1, 4.C4, 5.B, 6.B, 7.B, 8.B, 9.E, 22.A2, 25.A
MIL-STD-461F (EMI/EMC) RE101, RE102, CE102, RS103, CS101, CS114, CS116
MIL-HDBK-704-3 (Airborne) TAC101-110, 201, 301, 302, 303, 401, 601
MIL-STD-1399 (Shipboard) Section 300A

- OPTIONS**
Consult Factory for other Options and Part Number Configuration
- **AC Output: 230 V, 50 Hz**
 - **DC Output: 24, 28, or 48 V Output**
DC only unit delivers up to 1200 W of DC power.
Set Point Accuracy: +/- 2.3% at 50% Load
Load Regulation: +2% at 0% Load & -2% at 100% Load
Other outputs available upon request.
 - **Rackmount Accessories**
 - **External DC Input**
 - **External Battery Pack(s)**
 - **Parallel Operation for Loads up to 11.7 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

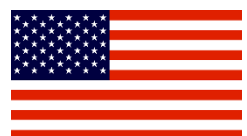


ACG1251XRBP Extended Battery Chassis

**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



Made in USA