

### RUGGED SERIES

The Acumentrics **Rugged-UPS™ 1252 Series** is designed for worldwide deployment in harsh physical and electrical environments.

Our **Rugged-UPS™ 1252** is uniquely suited for use in demanding shipboard and mobile applications.

The **Rugged-UPS** provides 1250VA of nominal 115VAC output from an input range of 80-265 VAC / 47-400Hz, or 20-32 VDC. This wide voltage and frequency tolerance enables users to power up with field generators in any international power standard. DC input makes this system ideal for use aboard tracked and wheeled tactical vehicles.

Our durable and versatile UPS system contains advanced on-line technology to provide highly reliable power back-up and conditioning for the most sensitive electronic devices.

Optional shipboard models incorporate a double-pole circuit breaker approved for use with shipboard Delta power.

*Acumentrics designs and manufactures innovative products for power quality and on-site generation. Product lines include tubular solid oxide fuel cell systems, uninterruptible power supplies and inverters.*

**Call today: 800-332-0277**



### FEATURES:

#### Power Factor Corrected, Wide Input Range

The **Rugged-UPS™** accepts a wide range of voltage and frequency inputs while providing seamless active power-factor correction and clean, reliable AC power.

#### On-line

This true on-line, double conversion uninterruptible power supply continually creates a pure sine wave AC output from a DC bus, thus protecting sensitive equipment from surges, spikes, brownouts, blackouts, and noise.

#### Dual Input, Automatic Power Selection

Our innovative design allows the UPS to automatically select AC or DC power input. In the event of an AC power failure the external DC input takes over.

#### Aluminum Chassis

The **Rugged-UPS™** is housed in a compact, lightweight chassis. All aluminum, welded construction allows overall weight of the unit to be minimized while still maintaining high durability.

#### Weather Resistant

Our gasket sealed enclosure and filtered air intake protects internal components from the damaging effects of airborne contaminants in the operating environment.

#### Wide Operating Temperature Range

A rated operating temperature range of -18°C to +50°C (0°F – 122°F) makes this UPS the product of choice for extreme environments.

#### Communication Port

The microprocessor-controlled **Rugged-UPS™** is equipped with a 9-pin communication port for user interface and remote monitoring.

### OPTIONAL FEATURES:

**DC Input**  
**24, 28 or 48VDC Output**  
**Rackmount**  
**Extended Run**  
**SNMP**



**ACG1252R-XR with  
1U Extended Battery**

## BENEFITS:

- Protects sensitive equipment from surges, spikes, noise.
- Easy to maintain.
- Wide Operating Temperature Range

## MODELS:

(Sample List of Available Products. *All UPS models are available in shipboard configuration, and optional DC Output configurations*)

*ACG1252R-18B*: UPS, 1250VA, AC In/AC Out, Full Battery Pack

*ACG1252U-18B*: UPS, 1250VA, AC In/AC Out, DC In, Full Battery Pack

*ACG1252R-XR*: UPS, 1250VA, AC In/AC Out, Full Battery w/ extended run capability

*ACG850R-18B*: UPS, 850VA, AC In/AC Out, Full Battery Pack

*ACG850U-18B*: UPS, 850VA, AC In/AC Out, DC In, Full Battery Pack

*ACG850R-XR*: UPS, 850VA, AC In/AC Out, Full Battery Pack w/ extended run capability

*ACG1UBP*: Extended Run Battery Pack, 1U, 22 minutes additional runtime (26 min total)\*

*ACG1UBP-C2*: Extended Run Battery Pack, 1U, 14 minutes additional runtime (18 min total)\*

*ACG1UBP-C3*: Extended Run Battery Pack, 1U, 26 minutes additional runtime (30 min total)\*

*ACG1252XRBP*: Extended Run Battery Pack, 2U, 15 minutes additional runtime (19 min total)\*

\* At Full Load

*Other UPS Models available – please call for further information*

## INPUT SPECIFICATIONS

*Input AC Voltage*: 80-265 VAC

*DC Input Voltage*: 20-32 VDC (optional)

*Frequency*: 47-400 Hz

*AC Input Circuit Breaker Rating*: 20A

*Input Power Factor*: 0.99 typical

*Efficiency with 1000W load*: ACu = 0.86 DCu = 0.82

## OUTPUT SPECIFICATIONS

*Continuous Output Power*: 1250VA/ 1000W or 850VA/ 600W

*Load Crest Factor*: 2.5 continuous

*AC Output Voltage*: 115 VAC +/- 5%

*AC Output Frequency*: 60 Hz +/- 0.5%

*AC Output Waveform*: Sinusoidal

*DC Output (optional)*: 24, 28 or 48VDC at 150W

*Total Harmonic Distortion*: 1.5% with 1000W resistive load

## ENVIRONMENTAL

*Operating Temperature*: -18° C to 50° C

*Storage Temperature*: -32° C to 66° C

*Humidity*: 10% to 95% non-condensing

*Altitude*: 0 to 15,000 ft operating, 0 to 40,000 ft non-operating

*Rain*: operates in blown precipitation

## BATTERY SPECIFICATIONS

*Battery*: Two each 12V/ 9Ah

*Type*: Zero-maintenance VRLA

*Typical Run Time*: 4 minutes full load at 25°C

*Recharge Time*: 4 hours to 90% temperature compensated float voltage

## MECHANICAL:

*Chassis Size (H x W x D)*: 3.5" x 17" x 24"

*Case*: Aluminum



**ACG1252 UPS  
Rear View**

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ISO 9001:2008 Certified

**Acumentrics**

99-0031 Rev. B



**ACG1252 UPS with 2U  
Extended Run Battery Pack**