

V2 COMPLIANT CHS4
Rugged-UPS™ 3000

CONTINUOUS OUTPUT POWER: 3000VA / 2400W



Unique Flo-Thru™ Technology

A unique heatsink tunnel design and gasket sealed enclosure provides maximum protection for components from the damaging effects of moisture, airborne particles, and other contaminants in the operating environment.

Power Factor Corrected

The Rugged-UPS™ provides seamless active power-factor correction and clean, reliable AC or DC power.

AC and DC Power Output

Power management allows various combinations of AC and DC power up to the maximum power rating of the unit. The combined power output (AC and DC) is indicated on the LED bar graph and protected from overloading.

On-Line Double Conversion

The Rugged-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.

RUPS Transferring

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

Dual Input with Automatic Power Selection

On DC input models, our design allows the UPS to automatically select AC or DC power. In the event of an AC power failure, the external DC input takes precedence over the internal battery.

User-Replaceable Battery Pack

The Rugged-UPS™ features LFP or low maintenance, valve-regulated lead acid (VRLA) batteries, enclosed in a user-replaceable battery pack for rapid hot-swap field replacement.

LFP Battery Pack

Backward compatible with existing units, these packs offer a safe energy source that is light weight with high cycle life and long run time.

Lightweight Aluminum Chassis

The Rugged-UPS™ is housed in a compact, lightweight chassis. All aluminum, welded construction minimizes overall weight of the unit while maintaining high durability.

Accepts True Worldwide Input™

The Rugged-UPS™ accepts AC input power from 80 VAC to 265 VAC / 47 Hz to 440 Hz, as well as DC input from 22 VDC to 32 VDC

**RUGGED
RELIABLE
POWER™**

Acumentrics durable and versatile Rugged-UPS™ equipment contains advanced double on-line conversion technology to provide highly reliable power conditioning and battery back-up for the most sensitive electronic devices in harsh and combat environments.



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INPUT SPECIFICATIONS

AC Voltage: 80-265 VAC, single phase
Frequency: 47-440Hz
AC Circuit Breaker Rating: 50A
DC Voltage: 20-32 VDC
Maximum DC Current: 120A
Power Factor: 0.99 typical
Efficiency with 1000W Load:
 AC η = 0.86 DC η = 0.82

OUTPUT SPECIFICATIONS

Continuous Power: 3000VA/2400W
 parallel units for greater load carrying capability
Load Crest Factor: 2.5 continuous
Peak Current: 40A (2400W AC output)
 100A (2000W 28VDC output [no AC output])
AC Voltage: 115VAC +/- 5%
AC Frequency: 60Hz +/- 0.5Hz
AC Waveform: Sinusoidal
DC Power (optional): 250W, 600W, 1200W or
 2000W @ 12, 24, 28, 48 or 54 VDC +/- 1%,
 200mVPP, 20MHz BW at full load
Total Harmonic Distortion (THD):
 <2% with 2000W resistive load

ENVIRONMENTAL

Operating Temperature:
 with LFP battery: -20°C to 60°C
 with Lead Acid battery: -18°C to 50°C
 w/o battery: -30°C to 65°C
Storage Temperature: -32°C to 66°C
 w/o battery: -40°C to 70°C
Humidity: 5% 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 Type: LFP or low maintenance VRLA
Typical Run Times: LFP 8 minutes,
 VRLA 6 minutes
Recharge Time: LFP 3 hours, VRLA 5 hours
External Battery Run Times:
 LFP Battery: 30 minutes
 VRLA Battery: 22 minutes
Recharge Time for EBM: 4 hours to 90%

MECHANICAL SPECIFICATIONS

Chassis Size (H x W x D): 7" x 17" x 21"
Envelope size (H x W x D): 7" x 18.5" x 23"
Weight: w/o battery pack: 85lbs
 with Lead-Acid battery: 135 lbs
 with LFP battery: 103 lbs

COMMUNICATION PORT

9-pin (DB-9) for user interface and remote monitoring; SNMP is optional

OPTIONS

- DC Output: 12, 24, 28, 48 or 54 VDC Output
- AC Output: 230 VAC 50 Hz Output
- Rackmount Accessories
- External DC Input
- Extended Battery Pack(s)
- Parallel Operation for Loads up to 25kVA
- Simple Network Management Protocol Version - V3
- Shipboard – Double-pole circuit breaker approved for use with shipboard Delta power

STANDARDS

The Rugged-UPS™ 3000 is tested and certified to meet the following standards:

- EMI:** MIL-STD-461-F: RE102, CE102, CS101, RS103, CS114
- Shock:** Packaged MIL-STD-810-G method 516.4 IV, VI
 Operating MIL-S-901-D, grade A, class II, type B
- Vibration:** MIL-STD-167-1, type I vibration
 MIL-STD-810-G Cat. 8, procedure I
- Shipboard:** MIL-STD-1399 section 300A
- Environmental:** MIL-STD-810-G



Rear Panel ACG3000 UPS

Contact Acumentrics to discuss customized solutions.

**RUGGED
 RELIABLE
 POWER™**

MODELS All Rugged-UPS™ models are available in shipboard configuration, parallel configuration and optional DC output configurations.

- ACG1251Ui24#.#KXSPNYLaC#**
- C#** = Bundled Product
 - La** = Lead Acid Battery; **Li** = LFP Battery
 - Y** = Bypass
 - N** = SNMP; **W** = USB
 - P** = Parallel
 - S** = Shipboard
 - X** = External Run Battery
 - #.#K** = Wattage of DC Out
 (Ex. .3K = 300W, .6K = 600W, 1K = 1000W)
 - 12** = 12 Volt DC Output; **24** = 24 Volt DC Output
28 = 28 Volt DC Output; **48** = 48 Volt DC Output
 - i** = 230 VAC 60 Hz Option; **ia** = 230 VAC 50 Hz Option
 Nothing = 115 VAC (standard)
 - U** = AC & DC Input; **R** = AC Input
 - 1** = 1U; **2** = 2U
 - 250** = 2500VA / 2000W; **125** = 1250VA / 1000W
 - Color option:
G = Gray (standard); **B** = Black; **T** = Tan
 - C** = Current Model; **N** = New Generation
 - A** = Acumentrics

Note: When a particular designation is missing from the part number then that option is NOT present in the device.

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
- True Worldwide input™ – Tens of Thousands of units Fielded

