





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.

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 contaminates 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.



TRUSTED POWER INNOVATIONS®

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 $^{\text{TM}}$ 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



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V2 COMPLIANT TO CHS4 Rugged-UPS™3000

CONTINUOUS OUTPUT POWER: 3000VA/2400W



TRUSTED POWER INNOVATIONS®

INPUT SPECIFICATIONS

AC Voltage: 80-265 VAC, single phase

Frequency: 47-440Hz ACCircuit Breaker Rating: 50A DC Voltage: 20-32 VDC Maximum DC Current: 120A Power Factor: 0.99 typical Efficiency with 1000W Load: AC n = 0.86 DC n = 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])

ACVoltage: 115VAC+/-5% ACFrequency: 60Hz+/-0.5Hz AC Waveform: Sinusoidal

DC Power (optional): 250W, 600W,1200Wor 2000W @ 12,24,28, 48 or 54 VDC +/- 1%, 200mVPP, 20MHz BW at full load

Total Harmonic Distortion (THD): < 2.5% 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% (noncondensing) Altitude: 0 to 15,000 ft operating; 0 to 40,000 ft non-operating

BATTERY SPECIFICATIONS

Battery Type: LFP or low maintenance VRLA Typical Run Times: LFP 8 minutes,

VRLA 6 minutes

Recharge Time: LFP3 hours, VRLA5 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 (HxWxD): 7" x17"x21" Envelopesize (HxWxD): 7"x18.5"x23"

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 $^{\text{\tiny{TM}}}$ 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-Gmethod 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-GCat. 8, procedure I

Shipboard: MIL-STD-1399 section 300A Rain: Consult factory for this option

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

C# = Bundled Product

#5 La = Lead Acid Battery; Li = LFP Battery

۵ Y = Bypass

N = SNMP: W = USB

Z P = Parallel

4

G

Δ. S=Shipboard

S X = External Run Battery

#.#K X #.#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 VAC60 Hz Option; ia = 230 VAC50 Hz Option

Nothing = 115 VAC(standard)

U = AC& DCInput; **R** = ACInput

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-**1** = 1U; **2** = 2U

125 250 = 2500VA / 2000W; 125 = 1250VA / 1000W

Coloroption:

G = Gray (standard); **B** = Black; **T** = Tan

C = Current Model; **N** = New Generation C

A = Acumentrics ⋖

Note: When a particular designation is missing from the part number then that option is NOT present in the device.
Consult factory for actual configuration and part number.

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



Rear Panel ACG3000 UPS

Contact

Acumentrics

to discuss

customized

solutions.

RUGGED

RELIABLE

POWER™