V2 COMPLIANT CHS4
Rugged-UPS™ 1625

CONTINUOUS OUTPUT POWER:
1625VA / 1300W

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 lightweight 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 20 VDC to 32 VDC.

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.
**RUGGED RELIABLE POWER™**

**V2 COMPLIANT TO CHS4**

**Rugged-UPS™ 1625**

**CONTINUOUS OUTPUT POWER: 1625VA/1300W**

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

**OUTPUT SPECIFICATIONS**
- Continuous Power: 1625VA/1300W
- Load Crest Factor: 2.5 continuous
- Peak Current: 20A (1000W AC output)
- AC Voltage: 115VAC +/- 5%
- AC Frequency: 60Hz +/- 0.5Hz
- AC Waveform: Sinusoidal
- DC Power (optional): 150W or 1200W @ 12, 24, 28 or 48VDC +/- 1%, 200mVPP, 20MHz bandwidth at full load
- Total Harmonic Distortion (THD): <2.5% with 1000W 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 Time: LFP 10 minutes, VRLA 4 minutes
- Recharge Time: LFP 3 hours, VRLA 4 hours
- External Battery Module Weights and Run Times:
  - AG1UBP: 42 lbs, 26 minutes at 1000W load
  - AG1UBP-C2: 32 lbs, 18 minutes at 1000W load
  - AG2UXRBP: 32 lbs, 25 minutes at 1000W load
  - AG1UBP-C3: 55 lbs, 34 minutes at 1000W load
- Recharge Time for EBM: 4 hours to 90%

**MECHANICAL SPECIFICATIONS**
- Chassis Size (H x W x D): 3.5” x 17” x 21” MAX
- Envelope size (H x W x D): 3.5” x 17” x 24.5” MAX
- Weight: w/o battery pack: 45lbs
  - w/Lead-Acid battery: 63lbs
  - w/LFP battery: 53lbs

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

**OPTIONS**
- DC Output: 12, 24, 28 or 48 VDC Output
- AC Output: 230 VAC 50 Hz Output
- Rackmount Accessories
- External DC Input
- Extended Battery Pack(s)
- Parallel Operation for Loads up to 12.5kVA
- Simple Network Management Protocol Version - V3
- Shipboard – Double-pole circuit breaker approved for use with shipboard Delta power.

**STANDARDS**
The Rugged-UPS™ 1625 is tested and certified to meet the following standards:
- EMI MIL-STD-461-F: REI02, CEE102, CS101, RS103, CS14
- Shock: Packaged MIL-STD-810-G method 516.4/V1
- 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
- Rain: Consult factory for this option

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

**ACG1251 U 24 #. K X S P N Y La C#**
- C# = Bundled Product
- L = 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: .5K = 300W, 6K = 600W, 1K = 1000W)
- # = 12 Volt DC Output; 24 = 24 Volt DC Output
- I = 230 VAC 60Hz Option; ia = 230 VAC 50Hz Option
- 1 = 1U; 2 = 2U
- U = AC & DC Input; R = AC Input
- 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. 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

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