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 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.

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 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.
**INPUT SPECIFICATIONS**
- **AC Voltage:** 80-265 VAC, single phase
- **Frequency:** 47-440Hz
- **AC Circuit Breaker Rating:** 20A
- **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:** 1625VA/1300W
  - parallel units for greater load carrying capability
- **Load Crest Factor:** 2.5 continuous
- **Peak Current:** 105A (1000W AC output)
- **AC Voltage:** 115V AC +/- 5%
- **AC Frequency:** 60Hz +/- 0.5Hz
- **AC Waveform:** Sinusoidal
- **DC Power (optional):** 150W or 1200W at 12, 24, 28 or 48VDC +/-1%, 200VPP, 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
- **Storage Temperature:** -22°C to 66°C
- **Humidity:** 5% to 95% (non-condensing)
- **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: 10 minutes, VRLA: 4 minutes
- **Recharge Time:** LFP: 3 hours, VRLA: 4 hours

**External Battery Module Weights and Run Times:**
- ACG1UBP: 42 lbs, 26 minutes at 1000W load
- ACG1UBP-C2: 32 lbs, 18 minutes at 1000W load
- ACG2UXRBP: 32 lbs, 25 minutes at 1000W load
- ACG1UBP-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 24"
- **Envelope Size (H x W x D):** 3.5" x 17" x 27"
- **Weight:** w/o battery pack: 45lbs
  - with Lead Acid battery: 63lbs
  - with LFP battery: 53lbs

---

**MODELS**

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

  | C# | L# | X | S | Y | P | M | N | W | V | U | R | E | K | L | X | P | Y | N | L | C #
  | # | # | K | S | P | Y | N | L | C |

**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.