V2 COMPLIANT CHS4
Rugged-UPS™ 1253
CONTINUOUS OUTPUT POWER: 1250VA / 1000W

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) external batteries, enclosed in a user-replaceable battery pack.

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.

Shipboard
Double-pole circuit breaker approved for use with shipboard Delta power
Rugged-UPS™ 1253

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

OUTPUT SPECIFICATIONS
- Continuous Power: 1250VA/1000W parallel units for greater load carrying capability
- Load Crest Factor: 2.5 continuous
- AC Voltage: 115VAC +/- 5%
- AC Frequency: 60Hz +/- 0.5Hz
- AC Waveform: Sinusoidal
- DC Power (optional): 150W @ 24, 28 or 48 VDC +/- 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% (non-condensing)
- Altitude: 0 to 15,000 ft operating; 0 to 40,000 ft non-operating

EXTERNAL 1U BATTERY SPECIFICATIONS
- Battery Type: LFP or low maintenance VRLA
- Recharge Time: LFP 3 hours, VRLA 4 hours
- Energy, Weights and Run Times:
  - LFP: 35 lbs/30 minutes
  - LAB: 30 lbs/15 minutes
  - Recharge Time for EBM: 4 hours to 90%

MECHANICAL SPECIFICATIONS
- Chassis Size (HxWxD): 3.5" x 17" x 22.5"
- LFP Battery Pack (HxWxD): 1.75" x 17" x 21"
- LAB Battery Pack (HxWxD): 1.75" x 17" x 16"
- Weight: w/o battery pack: 53 lbs

COMMUNICATION PORT
- SNMP for user interface and remote monitoring; SNMP is optional

OPTIONS
- DC Output: 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 10kVA
- Simple Network Management Protocol Version - V3

STANDARDS
The Rugged-UPS™ 1253 is tested and certified to meet the following standards:
- EMI: MIL-STD-461-F, RE102, CE102, CS101, CS103, CS114
- Shock: Packaged MIL-STD-810-G Method 516.4T01, 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
- 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
- La = Lead Acid Battery; Li = LFP Battery
- Y = Bypass
- N = SNMP; W = USB
- P = Parallel
- S = Shipboard
- X = External Run Battery
- #, # = Wattage of DC Out
- 12 = 12 Volt DC Output
- 28 = 28 Volt DC Output
- 48 = 48 Volt DC Output
- i = 230 VAC 60Hz Option; Ia = 230 VACS 50Hz 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. Consult factory for actual configuration and part number.