**Rugged-UPS™ 2503**

**CONTINUOUS OUTPUT POWER: 2500VA / 2000W**

**Power Factor Corrected**
The Rugged-UPS™ provides seamless active power-factor correction and clean, reliable AC power.

**On-Line Double Conversion**
The Rugged-UPS™ creates DC voltage which is then converted to the needed AC 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 (optional) 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 low maintenance, valve-regulated lead acid (VRLA) or optional Lithium Iron Phosphate (LFP) batteries, enclosed in a user-replaceable battery pack for rapid hot-swap field replacement.

**LFP Battery Pack (optional)**
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 (optional) from 20 VDC to 32 VDC.
INPUT SPECIFICATIONS
AC Voltage: 80-265 VAC, single phase
Frequency: 47-440 Hz
AC Circuit Breaker Rating: 40A
DC Voltage: 20-32 VDC optional
Max DC Current: 120A
Power Factor: 0.99 typical
Efficiency with 1000W Load:
AC \eta = \frac{0.86}{0.82}

OUTPUT SPECIFICATIONS
Continuous Power: 2500VA/2000W
Load Crest Factor: 2.5 continuous
Peak Current: 44A (2000W AC output)
AC Voltage: 115 VAC +/- 5%
AC Frequency: 60 Hz +/- 0.5 Hz
AC Waveform: Sinusoidal

ENVIRONMENTAL
Operating Temperature: with LFP battery: -20°C to 50°C optional
with Lead Acid battery: -20°C to 50°C
w/o battery: -30°C to 52°C
Storage Temperature: -40°C to 70°C
Humidity: 5%to95%(non-condensing)
Altitude:
0 to 15,000 ft operating
0 to 40,000 ft non-operating

CONNECTORS
AC Input: MIL-C-5015
AC Output: 6 x NEMA 5-15R

COMMUNICATION PORT
Serial RS232, SNMP-V3 optional

BATTERY SPECIFICATIONS
Battery Type: low maintenance VRLA or LFP optional
Typical Run Times:
LFP – ACB2503BPLI: 6 minutes
VRLA – ACB2503BP: 3 minutes
Recharge Time: LFP 3 hours, VRLA 5 hours
External Extended Battery Pack Optional

MECHANICAL SPECIFICATIONS
Chassis Size (H x W x D): 3U 5.25” x 17” x 22”
Envelope size (H x W x D): 3U 5.25” x 18.5” x 23”

Weight:
w/o battery pack: 61 lbs
with LFP battery – ACB2503BPLI: 70 lbs
with VRLA battery – ACB2503BP: 89 lbs

OPTIONS
- AC Output: 230 VAC 50 Hz Output
- External DC Input 20-32 VDC, with 4 x NEMA 5-15R (not 6) for AC output
- LFP Battery Pack
- External Extended Battery Pack(s)
- Simple Network Management Protocol Version - V3
- Shipboard – Double-pole circuit breaker approved for use with shipboard Delta power
- Rack-mount Accessories
- 4 x IEC60320 C19 20A Connectors replacing the 6 x NEMA 5-15R Connectors

STANDARDS
The Rugged 2503 UPS™ is designed to meet the following standards:
EMC: MIL-STD-461F, RE102, CE102
Environmental: MIL-STD-810-G: 501.5, 502.5, 503.5, 507.4, 514.6, 516.6, 506.5: (Consult factory for this option.)

ACB2503 MODELS:
Note: Consult factory for actual configuration and part number.

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RUGGED RELIABLE POWER™

Contact Acumentrics to discuss customized solutions.