







RUGGED RELIABLE POWER™



ACT2500 – Dual Conversion Power Source™

USER-CONFIGURABLE POWER SEQUENCING

A Complete Power Management Solution for Demanding Applications

With the Dual Conversion Power Source™, Acumentrics continues to provide innovative, rugged, reliable power solutions that meet the rigorous needs of soldiers in the field of battle around the world. End-users can rely on these for vehicle and C4ISR applications to work under hazardous conditions in the most austere, constrained and degraded situations.

The Acumentrics Dual Conversion Power Source provides 2000W of configurable AC or DC output from 80 VAC to 265 VAC / 47 Hz to 440 Hz or 22 VDC to 32 VDC. True Worldwide Input™ enables users to harness power from field generators, vehicles and any international power standard. This durable and versatile power conditioning system contains advanced double on-line conversion to provide highly reliable power conditioning for the most sensitive electronic devices.

One-button Push Mode Setup

The system can be programmed with a single button to ensure that the appropriate systems are powered or not for the specific mode of operation (battle mode, silent watch, etc.)

Situational Load Shedding

The Dual Conversion Power Source can be programmed to shed the power of everything, but essential equipment should the system experience reduced or loss of primary power.

Power Factor Corrected

The Dual Conversion Power Source accepts a wide range of voltages and frequencies, while providing clean, DC power as well as seamless switching from AC shore power to DC power to the internal battery.

On-Line Double Conversion

True on-line, the Double Conversion Power Source continually creates a pure AC sine wave or DC output from an isolated DC output. This protects sensitive equipment from input surges, spikes, brownouts, blackouts, and noise.

Lightweight Aluminum Chassis

The Smart Power Conditioner is housed in a compact, lightweight chassis. All-aluminum, welded construction minimizes overall weight of the unit while maintaining high durability.

Features of the Dual Conversion Power Source include: power sequencing that helps to ensure reliable communications at all times and a one button programmable output power system that runs quiet with no visible lights.







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INPUT SPECIFICATIONS

Input AC Voltage: 80-265 VAC, single phase

Frequency: 47-440 Hz

AC Input Circuit Breaker Rating: 40A

DC Input Voltage: 22-32 VDC

Vehicle DC In

External DC In

Maximum DC Current: 120A Input Power Factor: 0.99 typical Efficiency with 2000W load:

AC-DC n = 0.86DC-DC η= 0.82

OUTPUT SPECIFICATIONS

Continuous Output Power: 28VDC, 72A, 2000W

Peak Output Current: 100A Max DC Output: 2000W, 28 VDC +/- 2% **DC Output Circuit Breaker Rating: 120A** Ripple: <200mVpp, 20 MHz bandwidth, at full load

ENVIRONMENTAL

Operating Temperature: -30°C to 60°C **Storage Temperature:** -50°C to 70°C **Humidity:** 10% to 95% (noncondensing) Altitude: 0 to 15,000 ft operating, 0 to 40,000 ft non-operating Rain: Consult factory for this option

STANDARDS

EMI: MIL-STD-461-F: RE102, CE102, CS101, RS103,

Shock: Packaged MIL-STD-810-G Method 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-F Cat. 8, Procedure I Shipboard: MIL-STD-1399 Section 300A

Vehicle: MIL-STD-1275-D

MECHANICAL

Chassis Size (H x W x D): 7" x 12" x 21" Envelope size (H x W x D): 7" x 12" x 22.75"

Weight: 55 lbs. Connectors:

> DC & AC MIL-VG95234 Vehicle DC Breaker External DC Breaker **AC Breaker**

Communication Port DB25 SNMP MIL Connector

OPTIONS

DC Output: 12, 24, 28 or 48 VDC Output Basic unit offers up to 500W of DC with remaining output AC. Other wattages available with customized units.

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Contact Acumentrics

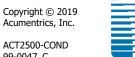
to discuss

customized solutions.

ACT2500

Dual Conversion Power Source

- Protects sensitive equipment from surges, spikes, brownouts, blackouts, noise
- Easy to maintain
- Wide Operating Temperature Range
- Easy to monitor



without notification

For further information or pricing, please contact us:

Melbourne 03 9872 4592 Sydney 02 9460 4355 Brisbane 07 3868 4255

sales@metromatics.com.au

www.metromatics.com.au

Adelaide 08 8343 8516

10 Walpole Park South Walpole, MA 02081 Tel: 1-844-RUPS-USA (1-844-787-7872) www.acumentrics.com

Acumentrics, Inc.

