

ANew LEVEL OF POWER

# LFP (Lithium Iron Phosphate) 1U External Battery Packs FOR ACUMENTRICS' RUGGED-UPS™

LIGHTWEIGHT. HIGH POWER DENSITY.

## Overpowering Lead Acid Battery Packs

Acumentrics' mission to provide rugged, reliable power for soldiers in theater continues with its new LFP Battery Packs. This new power source offers safe, lightweight, robust energy for fielded and new Rugged-UPS units.

Crush, fire and bullet penetration testing has been performed to simulate combat situations. Test results indicate that Acumentrics' LFP Battery Packs remain intact and demonstrated only minimal reactions to these abusive conditions.

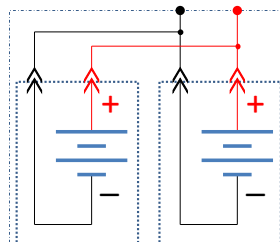
- System charge and discharge control circuits manage self generated heat
- Pack design includes electrical devices that regulate current flow
- Cell construction features minimize impact from extreme internal heat and pressure

Acumentrics' LFP Battery Packs were performance tested in worse case scenarios inherent to battlefield operations. The results indicate a power source with greater cycle life and higher run times than lead acid battery packs.

### MODEL:

**ANG1251XRBPC1:** two removable LFP packs, each 266Wh providing 10 minutes (20 minutes with 2 batteries) extra run time for 1kW load. Features hot switching for every 266Wh battery pack and system hot switching for the whole 532Wh battery pack

ANG1251XRBPC1



### STANDARDS

**EMI:** MIL-STD-461-F

**Environmental:** MIL-STD-810-G

### WARRANTY

1 Year

Backward compatible with fielded units.

### SAFETY TESTING

Tested and certified to meet UN-DOT 38.3

### BATTERY SPECIFICATIONS

**Average Nominal Voltage:** 25.6 VDC

#### Mechanical:

Size: (H x W x D): 1.72" x 17" x 21"

Weight:

ANG1251XRBPC1: 24 lbs

ANG1251XRBPC2: 32 lbs

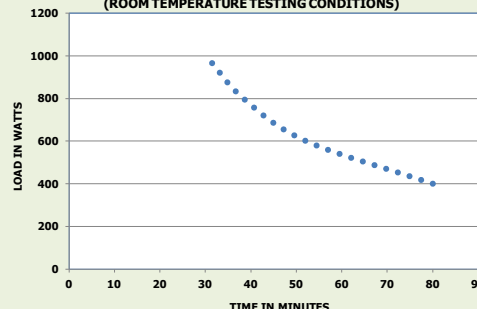
ANG1251XRBPC3: 30 lbs

**Operating Temperature:** -20 °C to 60 °C

**Storage Temperature:** -40 °C to 70 °C

**Life Expectancy:** 4 to 24 times higher than lead acid, based on temperature condition

**LFP 1251 C1 BATTERY RUN TIME VERSUS LOAD**  
UPS internal battery plus C1 two external batteries  
(ROOM TEMPERATURE TESTING CONDITIONS)



**RUGGED  
RELIABLE  
POWER™**

Reliability of communications capabilities is fully dependent on rugged power supplies. Acumentrics' LFP Battery Packs offer a lighter weight and longer lasting energy source the lead acid battery packs for mission-critical applications like ISR equipment as well as battlefield command and control shelters.



ANG1251XRBPC1

LFP inherent qualities such as chemical stability and low resistance provide the best chemistry to deploy for uninterruptible power supplies. In addition to improved performance, Acumentrics' LFP Battery Packs provide safety protection at three levels: system, pack and chemistry.