

A NEW LEVEL OF POWER

# LFP (Lithium Iron Phosphate) Battery Packs

## FOR ACUMENTRICS' RUGGED-UPS™ 2500

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 worst 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.

### STANDARDS

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

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

### WARRANTY

2 years; twice as long as lead acid battery packs.

Backward compatible with fielded units.

### SAFETY TESTING

Tested and certified to meet UN-DOT 38.3

### BATTERY SPECIFICATIONS

**Average Nominal Voltage:** 25.6 VDC

**Nominal Energy:** 532 Wh

**Weight:** 18 lbs; 64% improvement over lead acid battery packs

**Recommended Charge:** Up to 8 A

**Discharge Peak Rate:** 125 A

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

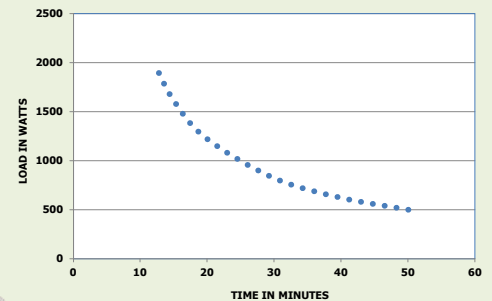
**Storage Temperature:** -40 °C to 70 °C

**Storage life:** charge every 3 months recommended.

**Life Expectancy:** 5-7 years after proper maintenance.

**RUGGED  
RELIABLE  
POWER™**

**LFP 2500 BATTERY RUN TIME VERSUS POWER**  
(ROOM TEMPERATURE TESTING CONDITIONS)



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.



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.