

# LFP (Lithium Iron Phosphate) 1U Internal Battery Packs

**FOR ACUMENTRICS' RUGGED BLADE UPS™ 1251/1501**

**LIGHTWEIGHT. HIGH POWER DENSITY.**

## Overpowering Lead Acid Battery Packs

Acumentrics' mission to provide rugged, reliable power for soldiers in theater continues with its 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
- Hot-swappable internal battery pack

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

1 Year

Backward compatible with fielded units.

### SAFETY TESTING

Tested and certified to meet UN-DOT 38.3 and NAVSEA S9310

### BATTERY SPECIFICATIONS

**Average Nominal Voltage:** 25.6 VDC

**Nominal Energy:** 307 Wh

**Runtime @ 1000W:** 13 Minutes

**Weight:** 8 lbs

**Recommended Charge:** Up to 8 A

**Discharge Peak Rate:** 65 A

**Operating Temperature:** -20 °C to 55 °C

**Storage Temperature:** -40 °C to 65 °C

**Storage Temperature for Optimal**

**Battery Life:** 10 °C to 25 °C

**Life Expectancy:** Up to 4 times higher than lead acid, based on temperature conditions.

**RUGGED  
RELIABLE  
POWER™**

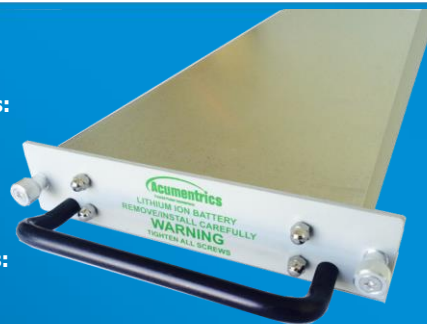
### Supported Battery Packs

#### ANG1251/1501 Battery Pack P/Ns:

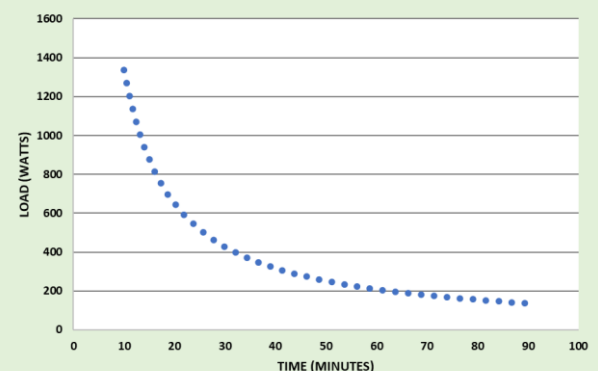
- ANG1251BPLI
- ANG1251BPLIF
- ANG1251BPLIC1
- ANG1251BPLIC2

#### ANB1251/1501 Battery Pack P/Ns:

- ANB1251BPLI
- ANB1251BPLIC1



**1U LFP BATTERY (Run Time vs Power)  
Room Temperature Conditions**



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.