

LFP (Lithium Iron Phosphate) 2U Internal Battery Packs

FOR ACUMENTRICS' RUGGED UPS™ 1252/1625

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.



**RUGGED
RELIABLE
POWER™**

Supported Battery Packs

ACG1252/1625 Battery Pack P/Ns:
- ACG1252BPLI
- ACG1625BPLIC1

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

Nominal Energy: 307 Wh

Runtime @ 1000W: 13 Minutes

Weight: 8 lbs

Recommended Charge: Up to 8 A

Discharge Peak Rate: 80 A

Operating Temperature: -20 °C to 55 °C

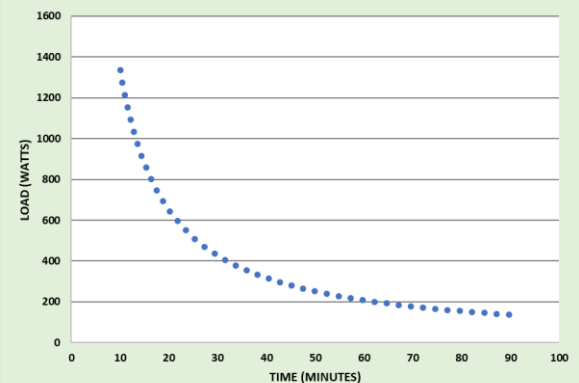
Storage Temperature: -40 °C to 65 °C

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.

2U 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