



BEHOLD THE NEXT GENERATION IN BATTERY TECHNOLOGY

Why universal battery® LFP Batteries?

Our trusted batteries have been powering essential and critical applications for over half a century. We believe in always delivering the best in quality, performance and customer experience - and that is how we roll.

Custom-engineered for exceptional power, our LiFePO₄ (LFP) batteries are the future in battery technology. Ultra-light weight and more powerful than traditional sealed lead-acid batteries, our LFP batteries deliver the best performance in the most extreme environments.



10X the cycle life of sealed lead-acid batteries



Ultra light weight
A third of the weight of traditional sealed lead-acid batteries



Charges 3X faster than sealed lead-acid batteries



Smart Battery Management System protection included

Have you ever left on an application and returned later to find out that the batteries are over-discharged and beyond repair?

This will never happen with a Universal Battery® LFP battery. With over 50 years of building batteries, you can count on our LFP batteries to be the best choice.

Features:

- Cycle Life over 2000 cycles
- Low Voltage Cutoff built inside the battery so you cannot damage the battery
- High Current Cutoff built inside the battery so you cannot overload or damage the battery
- Low and High Temperature cutoffs inside the battery so you cannot damage the battery
- Close to 100 percent of the battery capacity even at higher currents



Engineered for:



Battery Backup



Ice Fishing & Hunting



Industrial



Lighting



Medical



Oil & Gas



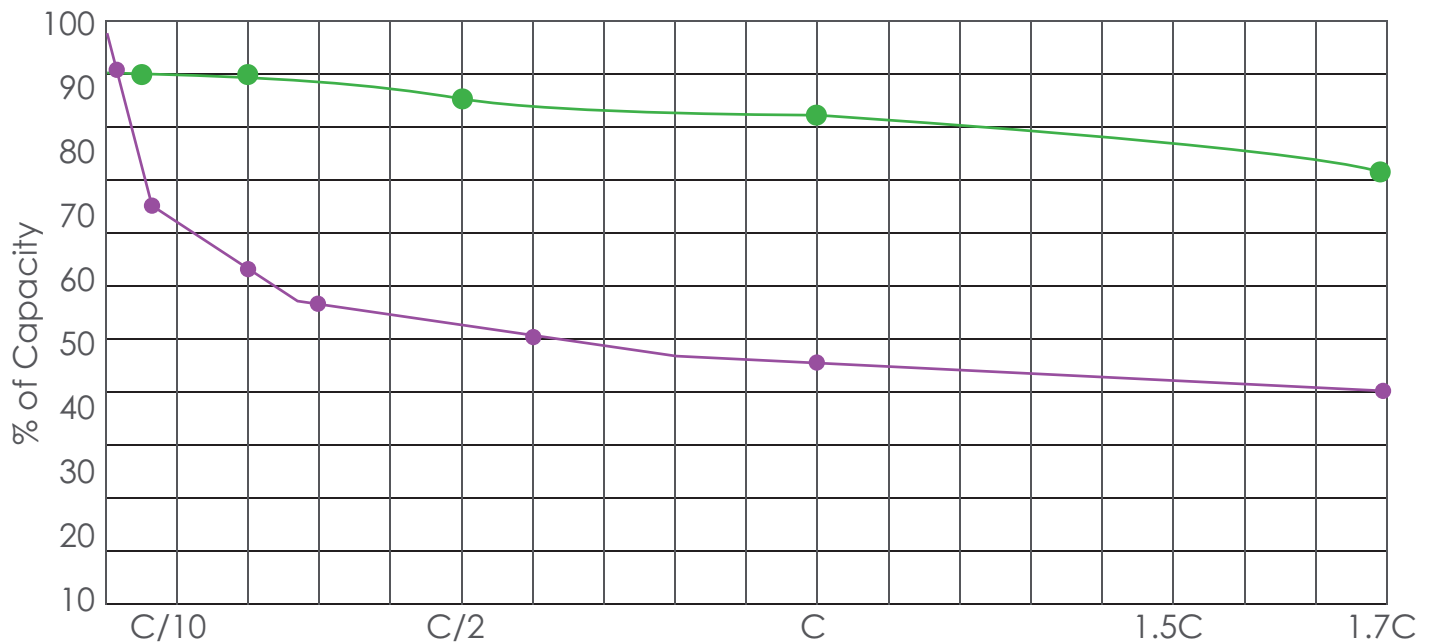
Security



Solar

The results speak for themselves.

For SLA, as discharge currents increase, the amp hour capacity decreases rapidly. For LFP, as battery discharge currents increase, the amp hour capacity change is minimal.



— universal battery® LFP
— SLA

C = The amp hour rating of the battery

C/20 - Discharge the battery for 20 hours;
C/10 - Discharge the battery for 10 hours

SLA Battery

Nominal Voltage	12.8 Volts
Nominal Capacity	77° F (25° C)
20-hr. (5.00 A)	100 Ah
10-hr. (9.30 A)	93 Ah
5-hr. (17.0 A)	85 Ah
1-hr. (60.0 A)	60 Ah
Approximate Weight	55 lbs (24.9 kgs)
Shelf Life (% of normal capacity at 68°F (20°C))	
3 Months	6 Months
90%	80%
	12 Months
	60%

universal battery® LFP Battery*





Nominal Voltage	12.8 Volts
Nominal Capacity	77° F (25° C)
20-hr. (5.00/ A)	103 Ah
10-hr. (10.0 A)	103 Ah
3-hr. (33.0 A)	103 Ah
2-hr. (48.5 A)	97 Ah
Approximate Weight	23.1 lbs (10.5 kgs)
Shelf Life (% of normal capacity at 68°F (20°C))	
3 Months	6 Months
97%	95%
	12 Months
	90%

*Please note: Universal Battery® LFP batteries are not shipped fully charged per regulations.

The Battery Management System (BMS) monitors voltage current and battery temperature for you.

Our LFP batteries have an internal Battery Management System (BMS) which monitors the voltage, current and battery temperature of each cell in the LFP battery. If conditions are over the limits of the battery, the BMS will turn the battery off, similar to a circuit breaker in your house. The battery will turn itself back on when the conditions are within the battery parameters.

Run time comparisons for UPG LFP batteries vs SLA batteries.

 <p>Laptop</p>	<p>Universal Battery® LFP1260</p> <hr/> <p>Run Time - 1.14 Hours Total Run Time* - 2280 Hours</p>	<p>Sealed Lead-Acid Battery 7Ah</p> <hr/> <p>Run Time - 46 Minutes Total Run Time* - 192 Hours</p>	<p>Sealed Lead-Acid Battery 9Ah</p> <hr/> <p>Run Time - 1.08 Hours Total Run Time* - 270 Hours</p>
 <p>400-Watt Inverter at 30% Power (120W)</p>	<p>Universal Battery® LFP12120</p> <hr/> <p>Run Time - 55 Minutes Total Run Time* - 1833 Hours</p>	<p>Sealed Lead-Acid Battery 18Ah</p> <hr/> <p>Run Time - 50 Minutes Total Run Time* - 208 Hours</p>	
 <p>400-Watt Inverter at 50% Power (200W)</p>	<p>Universal Battery® LFP12180</p> <hr/> <p>Run Time - 49 Minutes Total Run Time* - 1633 Hours</p>	<p>Sealed Lead-Acid Battery 22Ah</p> <hr/> <p>Run Time - 33 Minutes Total Run Time* - 138 Hours</p>	<p>Sealed Lead-Acid Battery 26Ah</p> <hr/> <p>Run Time - 43 Minutes Total Run Time* - 179 Hours</p>
 <p>2000-Watt Inverter at 20% Power (400W)</p>	<p>Universal Battery® LFP121030</p> <hr/> <p>Run Time - 2.3 Hours Total Run Time* - 4600 Hours</p>	<p>Sealed Lead-Acid Battery 110Ah</p> <hr/> <p>Run Time - 1.6 Hours Total Run Time* - 400 Hours</p>	

* For hours of total run time, we are estimating 2000 cycles for LFP and 250 cycles for SLA at 100% DOD; Temperature at 68° F. Please note: Times are estimated.

Cost of ownership.

While LFP batteries are more expensive than SLA batteries, the cost is reasonable if you are looking for longer cycle life and to save time through quick and easy charging.



We recommend Universal Battery® Maintainer 4000 to keep your battery charged and maintained.



We offer multiple battery sizes to fit your application.

In most applications, our LFP battery line can replace a higher amp-hour SLA battery.*



LFP645

UPG No. 48086
4.5Ah Battery
F1 Terminals
0.83 lbs
L: 2.8"; W: 1.9"; H: 4.00"; TH: 4.20"



LFP1260

UPG No. 48043
6Ah Battery in a 7Ah Case
F2 Terminals
2.65 lbs
L: 5.94"; W: 2.56"; H: 3.74"; TH: 4.00"



LFP12120

UPG No. 48042
12Ah Battery in a 9Ah Case
F2 Terminals
3.51 lbs
L: 5.94"; W: 2.56"; H: 3.74"; TH: 4.00"



LFP12180

UPG No. 48044
18Ah Battery in a 12Ah Case
F2 Terminals
4.85 lbs
L: 5.94"; W: 3.90"; H: 3.70"; TH: 4.06"



LFP121030

UPG No. 48040
103Ah Battery in a Group 27 Case
I8 Terminals
30 lbs
L: 13.0"; W: 6.81"; H: 8.50"

*User should ensure that they are following recommended application guidelines.

Features:



10X the cycle life
of sealed lead-acid
batteries



Smart Battery Management
System protection
included



Charges 3X faster
than sealed lead-acid
batteries



Ultra lightweight
A third of the weight of
traditional sealed
lead-acid batteries



2.5X longer shelf life
compared to sealed
lead-acid batteries



Eco friendly
No harmful pollutants,
corrosive acids or toxic
heavy metals



Ideal for extreme environments

universal battery®

LFP
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