



# 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

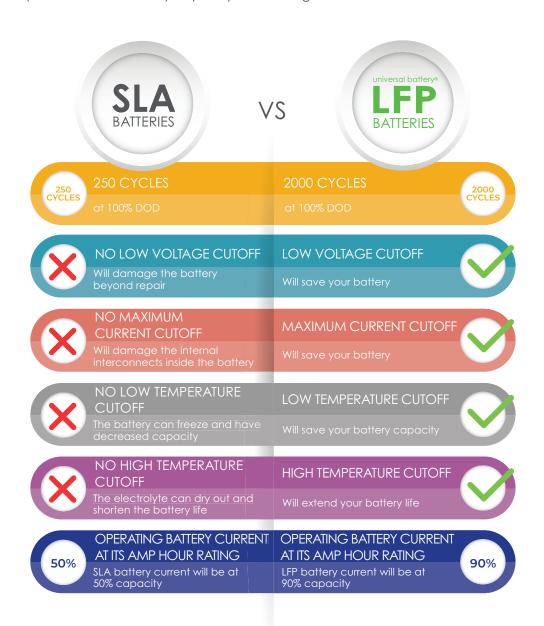


## Have you ever left on an application and returned later to find out that the batteries are over-discharged and beyond repair?

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:**







Ice Fishing & Hunting



Industrial



Lighting



Medical



Oil & Gas



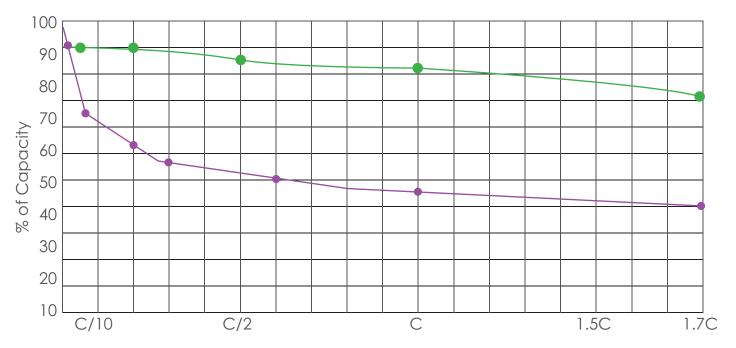
Security



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 Nominal Capacity			12.8 Volts 77° F (25° C)	
				20-hr.
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)	
<b>Shelf Life</b> (% of normal capacity at 68°F (20°C)				
3 Months		6 Months	12 Months	
90%		80%	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)	
<b>Shelf Life</b> (% of normal capacity at 68°F (20°C)				
3 Months		6 Months	12 Months	
97%		95%	90%	

<sup>\*</sup>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.



<sup>\*</sup> 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

18 Terminals

30 lbs

L: 13.0": W: 6.81": H: 8.50"

#### 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®



#### **Universal Power Group**

488 S. Royal Lane · Coppell, Texas 75019 P-469.892.1122 · TF-866.892.1122 E - sales@upgi com · www upgi com

Learn more about our products at www.upgi.com

Universal Battery® is a registered trademark of Universal Power Group.

Due to continuous improvements to our products, product specifications and images may vary slightly from depiction.

Follow us on social media









Copyright © 2021 Universal Power Group, Inc. All rights reserved.

<sup>\*</sup>User should ensure that they are following recommended application guidelines.