Simple, Clean & Reliable.







U.S. Battery's American
Made batteries have been

energizing the industry since 1926.

U.S. Battery Manufacturing Company is providing you with the highest rated batteries available today. With the addition of *XC™ Diamond Plate Technology®*, *Outside positive plates OSP™ design*, and an all new Defender™ Moss Shield specifically designed to prevent topside mossing. Our batteries will last longer and outperform the competition, saving both time and money. U.S. Battery offers you both flooded (wet) and AGM (sealed) deep cycle batteries making us your one-stop-shop for premium lead acid batteries. Our new line of AGM maintenance-free batteries offers ease and convenience, minimal gassing and no leak applications.

U.S. Battery has three manufacturing plants strategically placed within the USA and a network of distributors throughout the entire world making it extremely easy to obtain our superior made-in-America battery products no matter where they are needed.



U.S. Battery is proud to introduce our all-new "RE" battery line.

This is not just another Golf Car Battery with a fancy new "RE" label.

We have made real improvements such as XCM Diamond Plate Technology®,

Outside Positive Plates OSPM and an all new DefenderM Moss Shield.

All of these technologies combined with over 85 years experience in battery

manufacturing will make our new "RE" battery line the industry leader

in renewable energy storage.

6 & 2-Volt Renewable Energy Batteries								
Туре	20 HR rate	100 HR rate	Min @ 75 Amps	Min @ 25 Amps	Length	Width	Height	7 Year Warranty! 2/5 Year Warranty*
US RE GC2HXC / 6-volt	242	266	128	493	10-1/4" (260mm)	7-1/8" (181mm)	11-7/8" (302mm)	2 Replace / 5 pro-rata*
US RE L-16XC / 6-volt	401	441	245	915	11-7/8" (302mm)	7-1/8" (181mm)	16-3/4" (425mm)	2 Replace / 5 pro-rata*
US RE L-16 2VXC / 2-volt	1100	1250	845	2800	11-7/8" (302mm)	7-1/8" (181mm)	16-3/4" (425mm)	2 Replace / 5 pro-rata*



WWW.USBATTERY.COM or 1-800-695-0945

Convenientlu

Outside Positive (OSP™) Battery Designs

The primary causes of positive plate deterioration are positive grid corrosion and positive active material wear-out or softening and shedding. These failure modes are the result of the normal overcharge required to fully charge batteries and to mix the electrolyte to prevent electrolyte stratification.

In addition, batteries that are used in applications that require continuous float charging may be more susceptible to grid corrosion as a result of prolonged overcharging. Also, batteries that are subjected to frequent deep discharges (greater than 50% DOD) often exhibit increased effects from positive active

material wear-out. This is usually the case in Renewable Energy applications. Testing at US Battery has shown that an effective method for mitigating the effects of positive plate deterioration is to increase the ratio of positive to negative active material by adding a positive plate and removing a negative plate from a conventional cell design resulting in an Outside Positive (OSPTM) cell design vs a conventional Outside Negative (OSN) cell design. This design approach results in a cell with increased positive to negative active material ratio, increased positive to negative grid ratio, and increased protection of the positive plate from positive plate deterioration. This results in longer life, increased capacity, and more stable performance over the life of the battery.

DEFENDER™ Moss Shields

Electrical shorting can be caused by 'mossing' shorts at the top of the cell element. These mossing shorts are the result of positive active material particles that have softened and shed from the positive plates, become suspended in the electrolyte, and eventually collect at the top of the cell element. Once enough of this material has collected to bridge the tops of the separators, it can contact both a positive and a negative plate where it converts to conductive lead and forms a short circuit resulting in cell and battery failure. This failure mode is more prevalent in stationary applications than in vehicular applications because of the absence of vibration and shock that normally dislodges the mossing material and causes it to fall to the bottom of the container where it collects innocuously in the mud cells. Testing at US Battery has shown that the use of insulating 'moss shields' in batteries used in these stationary applications can effectively prevent the formation of these mossing shorts. This results in longer life, increased capacity, and more stable performance over the life of the battery.

XC ADVANTAGES:

- Higher Peak Capacity
- Increased Initial Capacity
- Improved Energy Density
- Enhanced Recharge-ability
- Emilianced Recharge-ability
 Fortified Plate Construction
- Improved Cycle Life