

**S** **INDUSTRIAL QUALITY**  
**POSITIVE PLATES!**  
**0.31" THICK!** **SOLAR**  
**ONE**®

**Batteries with HuP.® technology**





# Features and Benefits

Feature	Benefit
<ul style="list-style-type: none"> <li><b>Solar-One®</b> is warranted to deliver 2100 80%-deep cycles and an estimated 4000 cycles @50%</li> </ul>	More cycles and usable battery capacity in Renewable Energy service
<ul style="list-style-type: none"> <li><b>Solar-One®</b> gives you a 10 year warranty</li> </ul>	Still the best warranty in the renewable energy industry and it just got better, 7 year free replacement, 3 year pro-rated
<ul style="list-style-type: none"> <li><b>Solar-One®</b> uses a slightly enlarged epoxy coated steel case</li> </ul>	No more broken batteries due to shipping damage and it enables each battery cell to be removed and reinstalled for easy on-site assembly
<ul style="list-style-type: none"> <li><b>Solar-One®</b> includes lead plated copper intercell connectors with stainless steel fasteners</li> </ul>	Maximizes energy transfer, reduces corrosion and maintenance
<ul style="list-style-type: none"> <li><b>Solar-One®</b> is available in 8 sizes</li> </ul>	Reduces, or in many cases eliminates paralleling
<ul style="list-style-type: none"> <li><b>Solar-One</b> has over 9 sq. in. of terminal area</li> </ul>	Allows for multiple connections to the battery without the need for expensive terminal blocks
<ul style="list-style-type: none"> <li><b>Solar-One®</b> batteries have been in RE service for over 13 years</li> </ul>	A 99.8% track record of reliability in Renewable Energy systems
<ul style="list-style-type: none"> <li><b>Solar-One®</b> uses flip top filler caps</li> </ul>	Easier access for maintenance
<ul style="list-style-type: none"> <li><b>Solar-One®</b> is manufactured in accordance with ISO9000</li> </ul>	Ensures and maintains high quality standards in each step of the manufacturing process
<ul style="list-style-type: none"> <li><b>Solar-One®</b> batteries are shipped free to a commercial location with a fork lift or to the truck terminal of most major freight carriers.</li> </ul>	Saves you time and money and means no surprise cost when the batteries arrive.

Shown is a 1690 A/H cell partially removed from the case

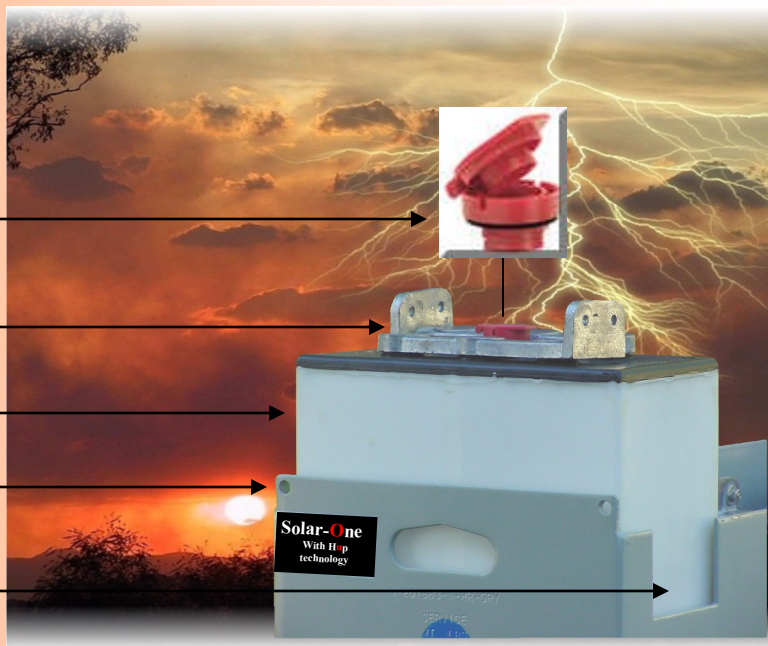
Flip Top Cap

Extra Large Terminals

Polypropylene Cell

Epoxy Coated Steel Case

Large openings for easy connections





# Technology

## The Solar-One® with HuP® Technology

**Solar-One®** batteries feature a design that's so unique, it's patented. Engineers at EnerSys® teamed up with DuPont chemists to design a flooded battery that's so dependable, it's backed by the longest standard warranty in the Renewable Energy industry (7 year free replacement + 3 year prorated). **Solar-One** batteries with **HuP** technology ensures that you receive more deep cycles, over its longer life, and a higher capacity for sustained performance during each cycle.

**HuP®** technology offers a battery plate that virtually eliminates flaking and shedding of positive plate materials. Flaking and shedding are the primary reasons for battery failure. We added Tetrafluoroethylene, or Teflon® (DuPont registered trademark for PTFE resins) to the lead paste used in active material of the positive plate. The Teflon forms fibers, and these fibers create a complex matrix that traps and binds the active material together. The material is then locked into place during a controlled curing process. The result, shedding and flaking are virtually eliminated, the lead paste remains cohesive, and contact with the positive grid remains in place longer than in standard batteries.

**Solar-One®** uses a computerized casting which results in less flash and better crystallization during the grid molding process. The advantage is stronger, thicker positive grids that are less susceptible to corrosion. The **Solar-One** positive grid is the heaviest in the industry. The **Solar-One** grid design allows for the maximum amount of active material in each plate. This allows for greater utilization of the active material for a stronger, more consistent performance and increased capacity. **Solar-One's** exclusive 5-layer wrap is a process of horizontal and vertical plate wrapping which provides additional protection against shedding of the positive active material. The negative plate is designed with a staggered grid pattern. A perfect match for the heaviest positive plate, the staggered grid provides for the greatest amount of active material.

## The Design Advantages Are Built-Into every Solar-One®!

**Solar-One®** batteries by nature are very heavy and present special issues for the Renewable Energy installer. To put this superior technology to work for you, employees at EnerSys designed an epoxy coated steel case that allow each 2 volt cell to be removed. This solved the weight issue and also offers excellent protection against breakage while in shipment. Oversized lead terminals are welded to the battery posts allowing the use of lead coated solid copper buss bars as the cell interconnects. Because the lead terminals are so large and heavy duty, they provide outstanding conductivity and a strong connection point for the cell lifting strap. All these features mean fast and easy on-site assembly, great energy transfer, and the ability to remove and replace individual 2 volt cells.

## The Value And Peace Of Mind of Solar-One®

**Solar-One®** dealers are leaders in the Renewable Energy Industry and have the knowledge and expertise to help you select the correct **Solar-One** battery for your system. They are educated in the operation and maintenance of the **Solar-One** battery and will be of great assistance in teaching you how to get the most out of your investment. Along with outstanding dealer support you also receive an installation and maintenance manual written for Renewable Energy users. You also receive the manufacturers written warranty. No other battery in the Renewable Energy industry offers the technology, quality, warranty, support, and price of the **Solar-One**.

Your Authorized **Solar-One®** Dealer

**Solar-One® Batteries...There Is A Difference!**