

# Introducing: EcoVolt's Energy Power EcoSmart Battery

The latest electrochemical  
advancements in battery  
technology to eliminate  
Acid Stratification



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# What is the EcoSmart Battery?



- Award-winning technology
- Innovative designs
- Problem Solver Batteries
- Patented in over 20+ countries
- EBG exclusive distribution
- On-hand inventory

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<https://ecovoltpower.com>

## Technologies

### EcoSmart MaxMix Automotive Batteries

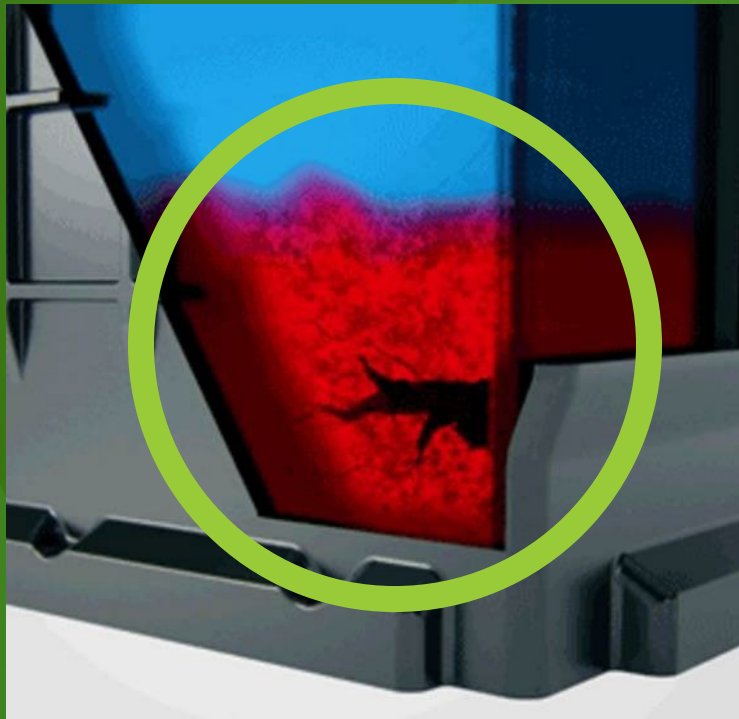
EcoVolt's EcoSmart MaxMix batteries combine the latest electrochemical advancements in battery technology with exclusive and patented 360° acid mixing technology to produce the most significant improvement in performance, reliability and life in starting, lighting and ignition batteries in 50 years.

MaxMix is a patented technology built into every EcoSmart battery. MaxMix uses a vehicle's natural movement to continuously mix the electrolyte inside the battery to eliminate acid stratification.

Acid stratification, also known as acid buildup, happens in every lead acid battery when heavier acid settles out of the battery's electrolyte and builds up at the bottom of the cells.



# The Problem: Acid Stratification



**Acid stratification** happens when the heavier acid separates from the water in the battery's electrolyte and settles at the bottom of the battery, causing excess corrosion and charge imbalance.

Acid Stratification reduces the active material in the battery by as much as 40% within eight months. The battery becomes incapable of proper discharge activity. Unbalance in acid density causes the erosion of the plate helping to create a defective battery.

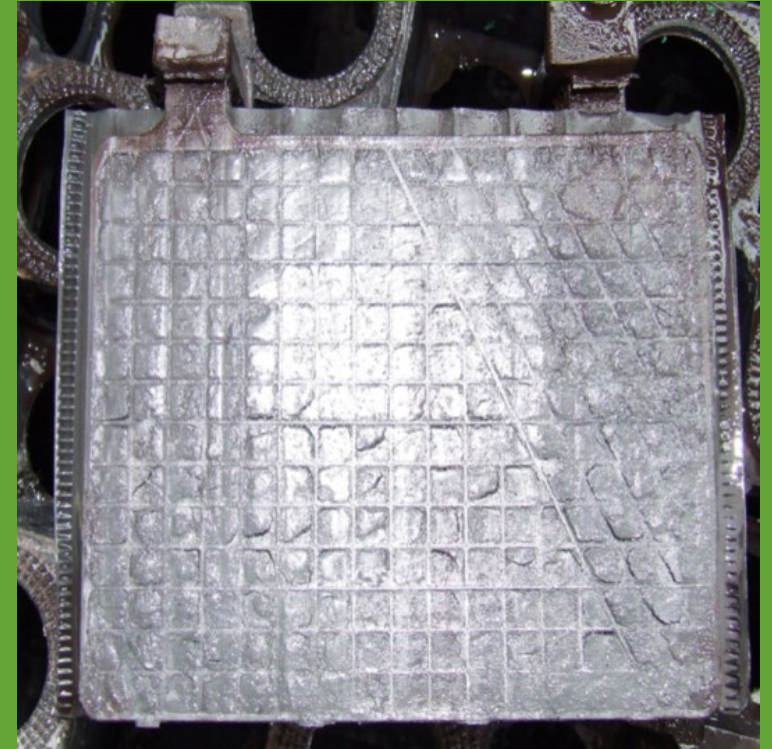
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# EcoVolt's award-winning EcoSmart MaxMix acid mixing technology eliminates acid stratification and more than doubles the life of any flooded lead-acid battery chemistry by eliminating acid build-up.

The conventional battery, shown left, reveals profound deterioration and decomposition of the pasted lead and lead plates, whereas the EcoVolt EcoSmart MaxMix battery, shown right, shows no such degradation. This kind of product integrity is a result of the circulation technology and corresponds with better performance and substantially longer life.

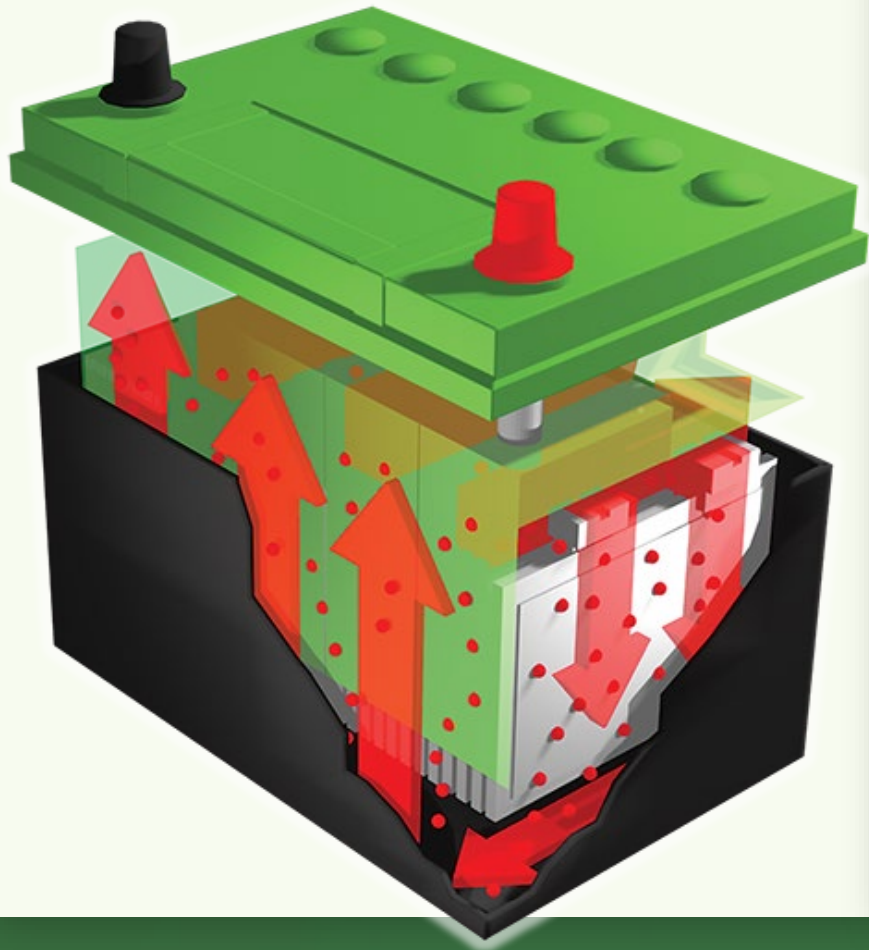


Plates after 210 cycles – no mixing



Plates after 378 cycles with mixing technology

# How It Works



# Catch the Wave!!

## *Let Us Explain*

EcoSmart batteries combine the latest electrochemical advancements in battery technology with exclusive and patented 360° acid mixing technology

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The motion of the vehicle causes the electrolyte to circulate and continuously mix — preventing acid stratification.

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## EcoSmart Benefits: Mixing

- Homogeneous electrolyte and optimal electro-chemistry due to 360 degree passive mixing
- Combine with cast/expanded grid for exceptional performance
- Double-cycle life and twice the product life compared to batteries of the same type without electrolyte mixing
- Longer lasting with lower degradation of parts

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# EcoSmart Benefits: Performance Improvements

- Cooler battery
- Less loss of electrolytes (less gassing)
- Maintain AH, CCA, and Reserve Capacity
- No internal erosion of the grids!

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# EcoSmart Benefits: EcoSmart Design

- Chemical Engineering
  - 360° acid mixing eliminates thermal gradients and improves life at extreme temperatures
  - Carbon additives maintain Dynamic Charge Acceptance at a level 3.5x greater than conventional or EFB batteries
  - Silver Calcium High-capacity grids with enhanced additives resist corrosion and maximize SHD high cycle and starting performance
- Plate Design
  - Rigorously lab tested to find the exact height for maximum destratification
- Plastic Design
  - ISO 14001 and ISO9001 certified manufacturing



# Applications

- Over-the-road trucks
- Fleets
- Long-idle applications

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# EcoSmart Batteries

EcoSmart Batteries are not your traditional Group 31 batteries

Part Number	CCA	Reserve Capacity
ECO-31A-950	950	200 min
ECO-31S-950	950	200 min
ECO-31A-850	850	185 min
ECO-31S-850	850	185 min
ECO-31A-750	750	170 min
ECO-31S-750	750	170 min

Part Number	CCA	Reserve Capacity
ECO-31A-750 HC	750	205 Min
ECO-31S-750 HC	750	205 min

Coming Soon

Part Number	CCA	Reserve Capacity
ECO-31M-DP	750	210 min

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# How to Sell It?

Can't lose with this combo!



**Good**

SLA Battery



**Better**

EcoSmart Battery



**Best**

AGM Pure Lead



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