

# Pulse Technology – Recover, Don't Replace Your Batteries

## Why is Pulse Technology Important?

Battery sulfation is a wasting disease that claims the life of 80% of the batteries in use worldwide. There is actually enough reactive material still in these batteries to keep them working for many years, however, the sulfation buildup eventually prevents the batteries from performing efficiently or holding a charge.

### **Pulse Technology solves the sulfation buildup problem**

Pulse Technology has been PROVEN to remove naturally occurring lead sulfates from the battery plates and returns them to the electrolyte solution. Used consistently, Pulse Technology prevents the larger sulfate crystals from forming allowing more room in the battery to store energy which in turn allows the battery to operate at maximum capacity.

### **Pulse Technology removes sulfates and extends battery life up to THREE times**

## How Pulse Technology Works



Pulse Technology's Waveform

Pulse Technology is delivered to the battery through a circuit which is independent of the charging circuit. This patented, high-frequency pulse waveform is of a specific amplitude and frequency that is precisely controlled by microprocessors.

#### Waveform Features:

- Precisely controlled by microprocessors
- Occurs approx. 25,000 times a second
- Removes sulfation from the battery plates so it dissolves back into the electrolyte
- No battery drain

## Scientifically Validated

Pulse Technology has been scientifically validated through extensive, independent test studies including Oakland University and Ohio State University.

The US Air Force Management Equipment and Evaluation Program also conducted studies of Pulse Technology and shared their findings:

**"This evaluation indicates that many batteries previously condemned could be reclaimed if Pulse Technology were used extensively; assuming there is no internal damage to battery, i.e.: plates, etc." The report goes on to state: "In conclusion, Pulse Technology worked by removing sulfation from the battery plates as the manufacturer claimed. It is unknown exactly how long a battery will last with Pulse Technology connected, but it is estimated at least eight to ten years of life can be added."**



**PulseTalk**

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## Visual Proof

TS Product conducted a study comparing batteries charged with a PulseTech charger with Pulse Technology to conventional charging.

The photos below are of actual battery plates after varying numbers of charge and discharge cycles. The white buildup on the bottom row of battery plates is sulfate crystals. They clearly reveal the benefits of charging and pulsing with Pulse Technology versus charging alone.

#### 12-Volt Lead-Acid Batteries Charged with PulseTech Charger



New – Never Filled 0 Cycles      120 Cycles      240 Cycles      360 Cycles      480 Cycles



#### 12-Volt Lead-Acid Batteries Charged with Typical Charger