

What makes the BatteryMINDER® desulfation method unique?

Sulfation (sul-fay-shun), the number one cause of early battery failures, can be safely reversed, using high frequency electronic pulses. Unlike other pulse type chargers that claim this or similar sounding features, VDC's BatteryMINDers® use a range of high frequencies. This ensures both old and newly formed sulfation will be safely dissolved in the shortest possible time. Using just one fixed frequency may remove some, but not all, especially long established – hardened sulfate crystals.

Our U.S. Patented methods are truly unique. We “dissolve” the sulfate rather than “destroying” or shaking it loose. By generating just the needed range of frequencies and avoiding high voltages, we eliminate potential damage to the batteries storage plates known as “flaking”. The sulfuric acid, the major ingredient in a sulfate crystal, can then easily pass into the electrolyte (liquid, gel or absorbed type). This immediately raises its specific gravity and frees the storage plates to now accept a fuller charge. It does this in the shortest possible time, without developing excessive heat. No loss of electrolyte takes place in this process, thus ensuring sealed batteries, as well as “wet”, never die due to loss of electrolyte.

Several charger companies claim a battery will not develop sulfation, if it is always kept fully charged. This is incorrect. All lead-acid storage batteries will develop sulphate during their life time. This includes the new sealed “dry” such as Optima, Odyssey, Exide and Interstate branded AGM-spiral-wound types. Batteries develop sulfation each time they are used (discharged – recharged). If they are overcharged or undercharged or left discharged, some for even just several days, they will rapidly develop sulfate. Even when stored fully charged, sulfate will form, without a frequently applied maintenance charge. It must be charged enough to prevent the battery from dropping below 12.4-Volts* (2.07-volts / cell). Using or storing batteries in temperatures above 75°F accelerates the rate of self-discharge and increases sulfation dramatically. In fact, the discharge rate doubles, as does sulfation, for every 10°F rise above room temperature.

In summary, if you want your batteries to deliver the very best performance and have the longest possible life, they must be kept free of sulphate by desulfating them in the safest, most effective way. BatteryMINDers' U.S. Patented** method is this most effective way and VDC Electronics guarantees it with a 100% Money Back Guarantee plus a 5 year “no hassle” full warranty.

Here are the questions you should be asking yourself:

- Do I want my batteries to last as long as possible (5+ years)?
- Do I want the highest level of performance during their lifetime?
- Do I want them to charge as fast as safely possible?
- Do I want to eliminate or greatly reduce battery maintenance (adding water, etc.)?
- Do I want to use the lowest amount of electricity to charge my batteries?
- Do I want to win back the price of the charger before I need to replace the battery I first bought it for? ***

If you answered yes to any of these questions, then you need a desulfating charger-maintainer. Remember, we guarantee their performance with a 100% Money Back Guarantee plus a five-year “no hassle”, 100% parts and labor or full replacement warranty.

* At room temperature. Applies to 12-Volt or 2 series-connected 6-volt batteries.

** U.S. Patent No. 6078166

*** Assumes you started with a new battery costing \$85 - \$150 and lasting at least twice as long as it would without desulfating it.