



Developers of **BatteryMINDER®**

World's largest maker of Pulse Mode Chargers, Desulphators,
Conditioners and Solar Controllers-charging systems

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VDC Electronics, Inc.

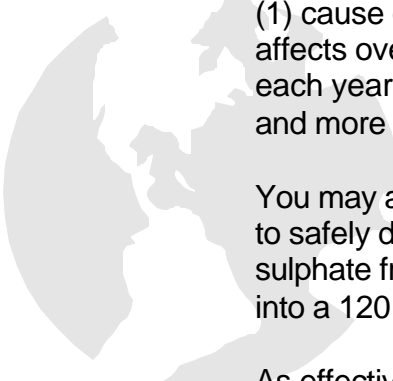
The Battery Management Specialists, World's Largest Maker of Pulse Mode Chargers and Battery Conditioners

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*For additional information and a test sample:
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OnBoard Conditioner Extends Battery Life by 220%



You've probably read about **Sulphation (sul-fáy-shun)**, the **number one** (1) cause of early battery failure and reduced performance. This condition affects over 85% of all the new lead acid storage batteries sold in the U.S. each year. Batteries that are free of sulphate can be charged both faster and more fully, which increases power and greatly extends battery life.

You may also have heard of products that use high frequency sound waves to safely dissolve some of the existing sulphate. These devices also stop new sulphate from forming on your battery's plates, but only when they are plugged into a 120 Volt electrical source, or when an alternator is charging the battery.

As effective as these devices have been, they fail to totally rid batteries of the old, long-established sulphate, formed over many charge-discharge cycles, over/under charging, or from using the wrong type of water. Moreover, if the battery was subject to high storage or operating temperatures ($\geq 125^{\circ}$ F), the type of sulphate crystals formed due to these conditions could not be removed, unless very high current and/or harmful high voltage was applied over extended time period, i.e. weeks or months. A method referred to as equalization has also been used for years to accomplish desulphation. However, this method could only be used on maintenance-type, (free electrolyte) vented-type batteries, not the newer technology sealed, gel, AGM, or valve-regulated maintenance-free types. Although equalization improved short-term performance, overall life of the battery was significantly shortened.

VDC Electronics, Inc., makers of the **BatteryMINDER®** brand charger/maintainer desulphators, has developed a new series of onboard units that overcome the shortcomings of the previous pulsing-type battery desulphators. They can be used on all types of battery systems, including sealed,

maintenance-free, deep cycle marine, gel and AGM. Only one unit is required for up to a six (6) battery system.

The new line of 12 Volt, 24 Volt, 36 Volt and 48 Volt battery systems utilize patented technology* to produce a wide range of high frequency pulses designed to dissolve both old and newly formed sulphate. Using Random Frequency Pulsation (**RFP**) technology, these devices sweep the entire frequency range known to cause sulphation crystals to resonate (dissolve). This allows the sulphuric acid that was in the sulphate crystals to safely return to the battery's electrolyte.

Additional advantages of using sulphation-free batteries include extended alternator and belt life, as the vehicle's charging system no longer needs to work as hard trying to constantly charge batteries that will not accept high alternator output current due to sulphation build-up. Better fuel economy can also be expected, as much lower output current is now demanded from the alternator to keep clean sulphate-free batteries fully charged.

Each of the new series of **BatteryMINDER**® On-Board Desulphators - Conditioners can serve up to six batteries at a time. Thus, even large commercial vehicles, boats and commercial equipment require only one unit per system. All units are effective on all brands/types of batteries, including Maintenance-free, Gel, AGM, Deep Cycle, Sealed, and Free-electrolyte. Installation is a simple two wire (+ -) hook-up to just one battery.

According to Bill Woods, spokesman for VDC: "For less than the cost of a single good quality battery, you can have a unit that will easily double the life of your entire battery system, whether one battery or up to six. And we guarantee it."

At present only limited quantities are available directly from the maker. By the end of the first quarter of 2006, the complete line will be available through VDC's dealer network. Expected selling price is under \$100 for models ODC-12 (12 Volt), ODC-24 (24 Volt) and ODC-36 (36 Volt). Model ODC-48 (48 Volt) will be slightly higher.

All models are covered by VDC's First Year 100% money-back Guarantee and five (5) year "no hassle" warranty. For further information contact VDC at toll free (800) 379-5579 M-F (ET) or on their website www.vdcelectronics.com.

*Protected by U.S. Patents 5783929 and 6078166. Other patents pending and applied for.

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