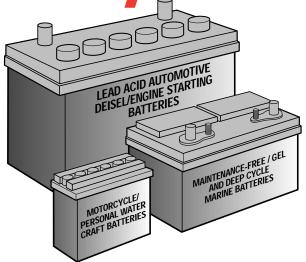
# Battery MINDer the charger with a brain saves dying batteries!



### 85% of NEW BATTERIES WILL DIE

Of the 70 million\* new 12 volt storage batteries made each year, 85% will die before they should. But a newly U.S. Patented product may well change this. **BatteryMINDer® Charger/Maintainer/ Conditioner** is the first of a new generation of "Computer-on-achip" units that automatically charge any type 12 volt storage battery, without ever overcharging, while automatically conditioning them. Dubbed the "charger with a brain", it is believed to be the first charger of its kind to reverse the primary cause of early battery failure known as "sulphation". Batteries that are starting to show their age, can now be brought back to near new condition. New batteries can be kept "new" for years longer.



### A SIMPLE PRESS OF THE BUTTON

starts the fully automatic de-sulphation process. Unique patented PulseMode™ circuitry\*\*\* creates high-frequency pulses dissolving the sulphated crystals which continually form on battery plates, preventing them from delivering their full power. After fully de-sulphating the battery it is then able to reach its full charge potential.

### **WORKS ON ALL BATTERIES.**

Any type 12 volt maintenance or Maintenancefree battery (up to 4 at once) including all starter, deep cycle, sealed, AGM, or gel can be left on charge for months at a time without fear of damage. Water never needs to be replaced while batteries are being maintained with BatteryMINDer as the unit never "boils out" the electrolyte. The unit plugs directly into a standard wall outlet (or extension cord) eliminating the need to disconnect the battery from its normal use location.

### Scientific basis for de-sulphation process/circuitry



ic moment at a resonant frequency ie, a point at which the chemical bonds that hold the molecules together to form a crystal can be broken. Sulphation, the number one cause of early battery failure, is simply crystals of lead sulphate (PbSO4) which have formed on the lead storage plates in a lead-acid type battery.

When a battery is used over time, improperly charged (over/under) or allowed to self discharge (as occurs during storage/non-use), these crystals build up on the battery's storage plates. This prevents the battery from ever

Every element known to man has a magnet- again being fully charged and able to deliver their full power/capacity.

> VDC Electronics. Inc. has created a simple method of generating the required resonant frequency (3.26 megahertz pulse) to breakdown the lead sulphate crystals, allowing the molecules to return to the battery's electrolyte. By creating a wave form with the required 3.26 MHz frequency, coupled with a very fast rise time and a high amplitude pulse, more energy is developed to breakdown sulphation than by any other method believed to exist. This unique approach has now been granted a U.S. Patent on February 6, 2001.







588X microscopic enlargements of a battery's lead plate. (L to R)

- 1. Close up of new battery.
- 2. After 6 months of misuse.
- 3. After 3 months of using BatteryMINDer.

## CUL US THE UL LISTED AND CSA CERTIFIED

BatteryMINDer has both Charge/Power On as well as Battery Condition/Polarity indicators. It will reject a "shorted cell" battery while ensuring a full charge to all others, including deep cycle marine, gel, maintenance free automotive. Unit comes complete with hydrometer type battery tester, quick connect terminal assemblies (2 sets) an unconditional one (1) year Guarantee and a 5 year "no hassle" warranty. There is even a free battery & charging system condition monitor, known as SureGuard (a \$29.95 retail value) sent to you after returning the warranty card and \$6.95 for S&H.

#### Additional features:

- Charges/Maintains up to 4 batteries at a time
- Guaranteed never to overcharge any battery.
- Polarity , Short Circuit and Temperature Protected
- Allows batteries to be stored safely at -20°F to +125°
- Supplies only current and voltage batteries need to be properly charged
- Prevents permanent cell damage due to self discharge and sulphation
- Designed and Engineered in the U.S.A.
- Manufactured in strict accordance with ISO 9001 Quality Certification requirements
- One (1) Year Unconditional manufacturer's Guarantee + a 5 Year "no hassle" Warranty

### plus a FREE SureGuard™ **Battery/Charging System Monitor**



When you purchase the BatteryMINDer you will receive a FREE SureGuard, the battery /charging system monitor, an invaluable aid in determining the condition of both your battery and on-board alternator/generator charging system with the press of a button. (a \$29.95 retail value) sent to you after returning the warranty card and \$6.95 for Shipping & Handling.

- Battery Council International, January 98,12 months - Nov. 95 - Oct. 96.
- Sulphation is the #1 cause of early battery failure.
- \*\*\* U.S. Patent 6,184,650 B1, dated February 6, 2001.

# BatteryMINDer customers say:

Boat Owner: "My deep cycle marine batteries never lasted more than a year. Thanks to **BatteryMINDer** I've completed the 2nd season with the same batteries and they're still going strong" J. W. Watkins, Baltimore, Maryland

**Car Collector:** "I used to need to charge my batteries every few months and replace them every two years and I still was not sure they would start my cars. With **BatteryMINDer** all these concerns are behind me" B. C. Pusser, Decatur, Alabama

RV Owner: "With BatteryMINDer I don't need to add water to my chassis or house batteries. Even after 6 months of storage, the batteries are always fully charged" W. A. Williams, Bentonville, Arkansas

**Motorcycle Owner:** "Having to replace my battery every season was costly and I never knew when it was going to let me down. With BatteryMINDer I don't have those worries" G. H. Holt, Ithaca, New York

Farmer: "My two tractor batteries needed to be replaced every season. With **BatteryMINDer** they are as fresh as when they were new, even after more than a year" J. K. Preston, Butte, Montana

Bass Boat/trolling Motor Owner: "BatteryMINDer extended my running time by more than 1/2 hour with my 3 year old battery"

G. H. Harding, New Orleans, Louisiana

#### **Jet Ski/Personal Watercraft Owner:**

"BatteryMINDer never boiled out the water or overcharged my battery even after 9 months of storage" J. D. Harkins, Azusa, California

