PulseTalk

Published Monthly by PulseTech Products Corporation, The World Leader In Battery Performance Technology • *September 2004*

INDUSTRY SPOTLIGHT

Material Handling

Get Maximum Run Time ALL The Time! No matter what type of industrial equipment you use (forklifts, pallet jacks, scrubbers, burnishers, scissor lifts, etc.) you need the **PowerPulse® Battery Maintenance System** from PulseTech. PowerPulse helps improve equipment productivity by maximizing your battery power and reliability while reducing your downtime and maintenance.

Industrial batteries are charged all the time and they cost thousands of dollars each. But, if they don't use ReNew-IT Pulse Technology® these BIG batteries will sulfate in time. Older batteries meant to last an eight-hour shift will only go three hours.

Now, imagine if each battery could last up to three times longer and perform better every day. That's what PowerPulse helps them do. Plus, sulfate-free plates also means it takes less electricity to recharge the battery.

TESTIMONIAL

"About five years ago I purchased a used '87 Toyota pickup with the original battery. At the time I installed an Industrial 12-Volt Solargizer. I just now replaced the battery...If it weren't for the Solargizer, the battery would have been consigned to the graveyard long ago."

Tom Kirby
Fair Haven, Michigan

SUCCESS STORY

Herzog Contracting Installs Solargizer Solar Chargers On Ballast Cars

Herzog Contracting Corporation is a 150 million dollar service company that operates a huge fleet of vehicles and equipment in a wide range of industries. Located in St. Joseph, Missouri, the company specializes in highway and airport construction, railroad and mass transit construction, commuter rail operations, and quarrying and materials production. In essence, this is a company owned and operated by people who understand equipment and what it takes to keep them operating efficiently.

They also understand the importance of battery maintenance. This is why the company installed PulseTech battery performance systems on over 1,000 pieces of railroad equipment.

Problem: The Herzog railroad division developed a new, automated, radio-controlled ballast cars. Due to the intricacies of the new ballast car system, battery power was a vital factor.

Solution: Gene Bounds (middle), Manager of Design, Engineering and Development, had been having some problems with his truck batteries so he installed an Industrial 12-volt Solargizer. Before long his problems were gone. This convinced him to try our products on his ballast cars. Two 10-Watt Solargizer Solar Chargers were installed on the ballast car to ensure maximum battery performance and capacity.

Result: Not only was Herzog pleased with the performance potential of the Solargizer Solar Charger, the company also anticipates the substantial savings this product can provide through increased battery life
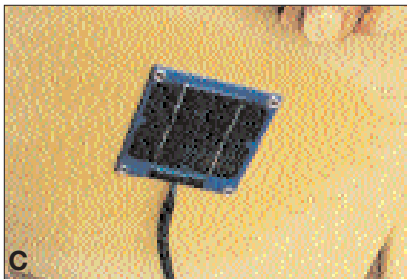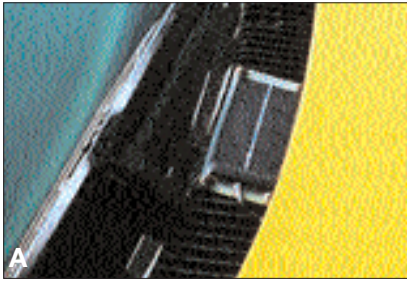

Photos: (Top) A 10-Watt Solargizer Solar Charger mounted on a Herzog radio-controlled ballast car. (Bottom) Stanley Herzog (left), Executive Vice President for Herzog, discusses the Solargizer Solar Charger with Gene Bounds (middle), Manager of Design, Engineering and Development, and Randy Poggemiller, Vice President/Railroad Division.

and reduced maintenance costs. Based on results, Herzog plans to install Solargizer Solar Charger and other PulseTech battery performance systems on vehicles and equipment in other divisions as well.

"These solar chargers are the ideal solution for our needs," says Gene Bounds, "We designed these self-contained ballast cars to increase efficiency and performance in the railroad industry. By using the Solargizer Solar Chargers to maintain and charge the batteries, we know our equipment will have the power it needs every time."

LEARN MORE: See your local PulseTech dealer to see how our products can help increase your battery reliability. For a dealer near you, call **1-800-580-7554**. Or visit **www.pulsetech.net**.

SAMPLE INSTALLS

Installing PulseTech products is easy and well worth the time. Shown above are examples of actual customer installations:

A. An Industrial 12-Volt Solargizer *(735X130)* solar panel mounted by the windshield of a taxi cab.

B. Three 48-Volt PowerPulse *(735X048)* units (two not shown) installed on a home generation electric system.

C. The circuit box of a 24-Volt Solargizer *(735X150)* mounted by the batteries of a large grader.

D. The solar panel of an Industrial 12-Volt Solargizer *(735X130)* on the fender of an ATV.

Visit this local PulseTech dealer today:

TECHTALK FAQ

Presenting a series of frequently-asked questions regarding the benefits of PulseTech products and how they can help your customers:

What makes PulseTech products different from other battery chargers and maintenance systems on the market?

RediPulse®, PowerPulse®, Solargizer® and other battery maintenance systems from PulseTech are the only products in the world that utilize our patented *ReNew-IT Pulse Technology*™. And this technology has been scientifically proven (see below for more) to be the most effective method of preventing the main cause of battery problems and failure — *sulfation buildup*.

Some products may claim to provide the same benefits as ours, but most of them merely try to "maintain" the battery by charging them on a constant basis. The problem is too much charging will ultimately overheat and damage the lead plates. In other words, the "cure" could be worse than the disease.

Other products even claim to remove lead sulfate deposits from the plates. But, this too is usually done by over charging the plates in order to literally knock the sulfates loose. In this situation, only a few sulfates are removed as active plate material sheds and falls useless to the bottom of the battery. It's sort of like blowing up the house just to get rid of the termites.

On the other hand, PulseTech products enable the embedded sulfates to leave the plates and converts them to active electrolyte. They also help prevent them from building up again and won't harm the battery in any way.

What are the benefits of using ReNew-IT Pulse Technology?

The main benefit of our technology is to ensure battery performance so you can rely on your battery any time you need it. As we said above, by cleaning the battery plates ReNew-IT Pulse Technology provides the following benefits:

- Stops the main cause of battery problems and failure: *sulfation buildup*
- Prevents dead batteries and helps your batteries work harder than ever
- Batteries last up to 3X longer
- Batteries charge deeper and maintain greater reserve capacity so they last longer between recharges and provide more *available* power
- Prevents the loss of battery power on vehicles no matter how long they sit unused — even months at a time
- Renews dead, sulfated batteries and helps bring them back to life
- Helps protect the environment by reducing the number of discarded batteries
- Works with all lead-acid batteries including sealed, gel cell and AGM.

Scientifically-Proven Technology

Independent studies by researchers at Oakland University and Ohio State University recently confirmed that ReNew-It Pulse Technology increases battery efficiency and battery life dramatically. These two-year studies showed that our technology allowed a more even distribution of lead-sulfate crystals over the surface area of the battery plates. It also revealed a significant reduction in the size of crystals. These changes greatly improve a battery's ability to store and provide energy.

Our technology also prevents sulfate-induced corrosion that is the primary cause of shedding of active material on the plates. As a result, the life span of the battery is increased dramatically.

(Left) A battery plate covered in heavy sulfation buildup which reduces the battery's ability to accept, store and release energy. (Right) ReNew-It Pulse Technology™ cleans these lead-sulfate deposits off the plates and converts them to active electrolyte. This process exposes the active material on the battery plates which means batteries are stronger so you get up to three times longer life and maximum performance.