

## PRODUCT SPOTLIGHT

### 5-Watt Solargizer® Solar Charger

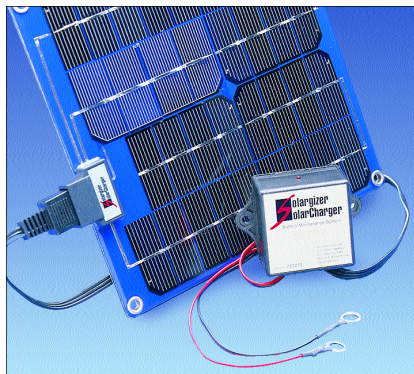
Charge and de-sulfate your 12-volt battery with this unique solar pulse charger.

It maintains your battery at full capacity — without overcharging. At the same time, it uses our *ReNew-IT Pulse Technology* to prevent the buildup of lead-sulfate deposits on the battery plates.

Our technology also provides a charge leveling effect to equalize the charge across all cells.

The 5-Watt Solargizer Solar Charger (735X605) is easy to install and use. It works with single 12-volt batteries, as well as up to four batteries connected in parallel.

Ideal for charging vehicle batteries in areas without access to electrical power. Ten-year limited warranty.



## TESTIMONIAL

"On the (fire trucks) using the PulseTech systems, the voltage and cranking amps have been maintained like new the past few months without having to charge the batteries. These systems have helped enhance fire department reliability and quality."

George Martin  
Division Manager  
Houston, Texas Fire Department

## SUCCESS STORY

### Solargizer® Helps Batteries Last Longer On Stored School Buses

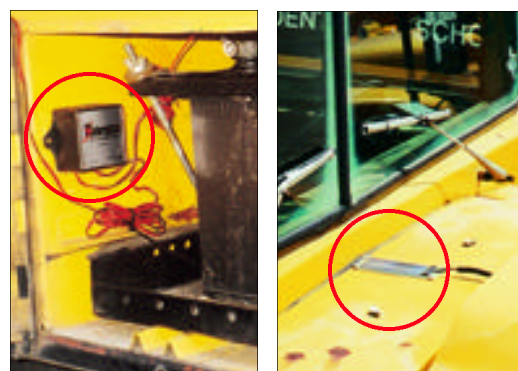
In Durango, Colorado, school district 9-R operates a fleet of 45 school buses and athletic vans. Like other schools across the country, they used to suffer from battery problems on a regular basis. But, Dave Jackson, maintenance shop coordinator for 9-R, eliminated those problems by using the Industrial 12-Volt Solargizer® Battery Maintenance System and Pulse Charger®/World Version from PulseTech on the bus batteries.

**PROBLEM:** Every year, the school buses in Durango sit unused during the long, hot summer months. Stored batteries suffer from sulfation buildup (lead-sulfate deposits on the battery plates) more than batteries that are used on a frequent basis. As a result, most of the buses have to be jump started at the beginning of the school year.

Several of the 12-volt batteries also had to be replaced with new batteries. Needless to say, the cost for the replacement batteries, as well as the labor needed to install the batteries, was an expense Durango school officials wanted to avoid.

**SOLUTION:** Dave Jackson and his crew charged and conditioned each battery with the Pulse Charger®/World Version (746X725) before storing the school buses for the summer. The Pulse Charger is a 20-amp charging system that also removes damaging lead-sulfate deposits from battery plates through the use of ReNew-IT Pulse Technology®.

They also installed an Industrial 12-Volt Solargizer (735X130) on each bus to keep the batteries desulfated while on the bus.



Photos: (Top) Dave Jackson, Shop Coordinator, stands next to one of the 45 buses using Solargizer. (Bottom) Industrial 12-Volt Solargizer circuit box (left) and solar panel (right) mounted on one of the buses.

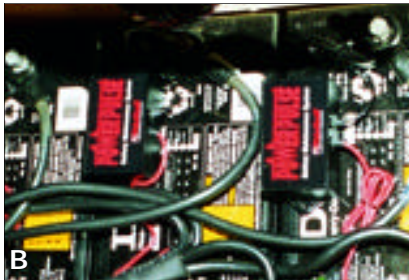
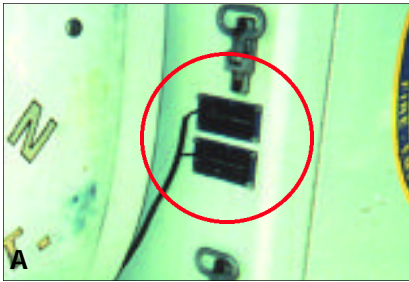
**RESULTS:** In the Fall, they only had to jump start one bus. All the other buses started with no problems and the batteries were in "like-new" condition.

"We are very pleased with the savings in battery costs," states Sharon Miedki, Director of Transportation for the Durango School District, "as well as the dramatic reduction in battery-related downtime and man-hours we've experienced since we started using Solargizer."

**LEARN MORE:** Now is the time to add Solargizer to school buses so they will be in peak condition for the Summer storage months. To see how it and other PulseTech products can help you, visit your PulseTech dealer.

For a dealer near you, call 1-800-580-7554, or visit [www.pulsetech.net](http://www.pulsetech.net)

## SAMPLE INSTALLS



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

- A. Solar panels of two Industrial 12-Volt Solargizer (735X130) units mounted on an ambulance.
- B. Two of four 12-Volt PowerPulse units (735X012) on a large snow blower at a major Texas airport.
- C. An Industrial 12-Volt Solargizer (735X130) on a waste management truck.
- D. A set of golf cart batteries with a 48-Volt PowerPulse unit (735X048).

## TECHTALK FAQ

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

### Are the RediPulse®, PowerPulse® and Solargizer® systems chargers?

Besides preventing lead-sulfate buildup on battery plates, the RediPulse and Solargizer models also produce a trickle charge as well. They provide enough power to offset the normal daily discharge of a battery (usually 3.1mA to 10.1mA depending on the battery chemistry), plus a nominal amount of parasitic drain. This was recently verified independently by one of the major U.S. auto manufacturers.

Keep in mind, though, that while they do supply a pulsing trickle charge to the battery, the charge rate is not sufficient to charge a completely dead battery in a short period of time. PowerPulse is a battery *maintenance* system designed to prevent sulfation buildup only. It will not charge.

Also, use of these ReNew-IT Pulse Technology products will enable chargers to do their work more efficiently. Since they help keep the battery plates free of sulfate deposits, it takes less time to charge the battery and battery capacity is increased. It also has greater discharge capabilities so it will last longer between charges.

### Is it true that charging batteries in reverse polarity will desulfate the

### plates?

Absolutely not. reversing the polarity will actually damage your battery and could even lead to an explosion. Polarity in a battery should NEVER be reversed for any reason.

For safe, effective prevention and removal of sulfation buildup on battery plates, use only our ReNew-IT Pulse Technology products. They improve battery performance and will not harm the battery in any way.

### Do the RediPulse, PowerPulse and Solargizer models have to stay on the same battery permanently or can you move them from battery to battery?

These units can be moved from battery to battery if the customer chooses to do so, but we strongly suggest you use them on the same battery or batteries all the time. Remember that sulfation buildup occurs 24-hours a day from the first moment acid is loaded into the battery. Although you can use ReNew-IT Pulse Technology as a part-time fix, a continuous installation will give a much more effective result because not only do they eliminate the existing buildup, they also prevent the lead sulfates from building up again. 🛠️

## 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 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 your batteries are stronger and you get up to three times longer life and maximum performance.



**For More Information:** To learn more about PulseTech battery-related products and how they can help increase your sales, or to order products, just call 1-800-580-7554, ext. 154. You can also go to [www.pulsetech.net](http://www.pulsetech.net) or e-mail us at [ppcmarketing@pulsetech.net](mailto:ppcmarketing@pulsetech.net).