

PulseTalk

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INDUSTRY SPOTLIGHT

Gensets and UPS

Gensets and other standby systems depend on lead-acid batteries to provide the energy required to start them, and most of these batteries sit unused for months. As a result, the batteries discharge which causes the plates to become heavily sulfated. This sulfation

"buildup" is the main cause of battery problems and failure. And if the batteries fail, the backup systems will too.

That's why the Solargizer and PowerPulse systems are the ideal solutions for battery problems on gensets and UPS (Uninterrupted Power Supply) systems. They make sure the lead-acid batteries work when they need them.

PowerPulse comes in 12-, 24-, 36- and 48-volt models. Solargizer is available in 12-, 24- and 36-volt units.



TESTIMONIAL

"We only used to get a maximum of four years out of our golf cart batteries. Now they are going on about five or six years and still going strong. I know the PowerPulse is working great on them..."

Charlie Guy
Owner, Brockville Highland Golf
Brockville, Ontario, Canada

SUCCESS STORY

RediPulse System Improves Police Cycle Performance

A police officer arrives at an accident and leaves his lights running while directing traffic. In many cases, by the time the emergency is cleared, the battery on the bike is dead. This is just one of many battery problems faced by motorcycle officers across the country every day.

But not in Arlington, Texas. Because they use the RediPulse 6-12 Battery Maintenance System from PulseTech.

PROBLEM: Each of the 14 officers in Arlington Police Department own and maintain their own motorcycles including Kawasakis, BMWs, Harley Davidsons and Hondas. Like other law enforcement and rescue vehicles, the batteries on these motorcycles are subjected to an incredible power drain due to the electronic equipment attached... radios, sirens, lights, radar guns, etc. As a result, the bikes have to be jump- or push-started or the battery has to be replaced far too often. For example, Sgt. James Laman, head of the motorcycle division, had to replace the battery on his Harley Davidson about every seven months. Another problem was that the officers couldn't leave their lights on during emergency situations because it would drain the battery.

SOLUTION: Since all of the officers store their bikes in their garages — sometimes for as long as three or four days — they each installed the RediPulse 6-12 (735X260). This model includes a specially-designed ac adapter and when it's plugged into an electrical outlet it works 24 hours a day.

RESULTS: The battery on Sgt. Laman's Harley lasted three years rather than seven months. Plus, now that the batter-



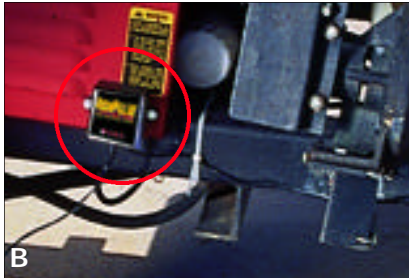
(Top left to right) Officers of the Arlington, Texas police Department using PulseTech to ensure battery performance on their bikes. (Bottom) The RediPulse 6-12 installed on a motorcycle.

ies can accept and hold more energy the officers are able to run their lights, sirens and radios all at the same time without draining their batteries. This becomes especially important when officers go off duty for three or more days. The RediPulse system offsets the normal loss of battery power no matter how long the bike sits unused, so it's ready to go any time.

"(PulseTech) is making a huge difference in our batteries," says Sgt. James Laman of the Arlington Police Department. Currently I drive a Honda, but my last bike was a Harley Davidson. I was replacing the battery on it about every seven months. But, after installing (the PulseTech unit), I rode for three years with the same battery."

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. A set of six 6-volt industrial scrubber batteries with a 36-Volt PowerPulse (735X036) unit.
- B. A RediPulse 6-12 (735X260) installed on a rider sprayer at a major golf course.
- C. The solar panel of a 12-Volt Solargizer (735X130) mounted on a police motorcycle.
- D. The Pulse Recovery System® 12 (740X650) recovering and cleaning batteries in the maintenance department of a major airport.

TECHTALK FAQ

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

How much sunlight does Solargizer need to work?

The solar panel on the Solargizer Battery Maintenance System is so efficient, it only needs one to two hours of direct sunlight a day to accomplish its task for a full 24 hours. This is true even if you live in areas where skies are cloudy or lightly overcast most of the time. In these situations the solar panel may require a little more time to absorb enough sunlight.

To make sure you are receiving the full benefit of Solargizer's ReNew-IT Pulse Technology, make sure the solar panel is mounted in an area where it has access to as much available direct sunlight as possible. The solar panel will then absorb sunlight, convert it into energy and the circuit box will desulfate the battery on a daily basis.

Does Solargizer need direct sunlight to work?

No, not really. Obviously, the better exposure to bright sunlight the more efficiently the unit works. But, because of the unique design, Solargizer accomplishes its assigned tasks with minimal amounts of ultraviolet (UV) exposure. A rule of thumb is Solargizer requires on average one to two

hours per day of sunlight to provide benefit. Even cloud cover provides UV exposure that can then be converted to energy. Common sense plays a part, the more the better, but it doesn't have to be "Death Valley" sun to be effective. The Solargizer works extremely well even in notoriously cloudy locations like Seattle.

Where is the best place to install the Solargizer solar panel?

Installation of the Solargizer solar panel is one of personal preference. And since the industrial model Solargizers have solar panels with an acrylic/lexan cover, they are weatherproof and virtually indestructible so they can be mounted almost anywhere.

Ideally, the most effective location for the solar panel is on top of your vehicle or equipment. That way it is sure to receive the most exposure to sunlight during the day. If for some reason you can not mount it on top, be sure to put it some place where it will receive as much sunlight as possible. (Note: Do not mount the panel behind a windshield if it is UV protected.) Since the panel is so efficient, it can be installed either horizontally or vertically, but we suggest you mount it horizontally. 🛠️

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.



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