

PulseTalk

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PRODUCT SPOTLIGHT

RediPulse Pro-10® Charge/ Maintenance System

If you sell, stock or service lead-acid batteries, you need the RediPulse Pro-10 (746X900). This revolutionary system keeps up to ten new batteries "factory-fresh" while they rest on the shelf waiting to be sold or put in service.

The Pro-10 prevents sulfate deposits from forming on the battery plates. It also safely provides a continuous charge/maintenance on each battery so they are clean, charged and ready to go all the time.

Plus, by removing these energy-dampening deposits, your batteries are stronger than ever so you won't have to rotate them as often. This means your "shelf-life" warranty issues and other battery-related expenses are reduced dramatically. Two-year limited warranty.



TESTIMONIAL

"Before, we would go through about one set of batteries on each bed digger every year. But since we installed the Solargizers, we haven't had to replace a single battery."

Steve Armenta
Maintenance Supervisor
Basic Vegetable
Oceanside, New York

SUCCESS STORY

PowerPulse Provides 22% More Run Time On Forklift

Motive batteries are the most expensive type of lead-acid batteries available, so it's understandable why companies using forklifts, pallet jacks and other motive equipment are anxious to find a way to make these heavy-duty batteries last longer and work harder. The Tai Ku Cola Taoyuan Factory in Taiwan, China, used to suffer from battery problems. But no longer. Now they use the PowerPulse® system from PulseTech.

PROBLEM: The factory has ten forklifts that are needed for 20-hour work shifts. Each forklift is equipped with two sets of 48-volt motive batteries that cost about \$4,000 (U.S.) a piece. When the batteries were new, they lasted eight hours after being fully charged. After three years of use, though, they were only lasting about three hours a shift due to sulfation buildup on the plates.

SOLUTION: The manager of the factory decided to install a 48-Volt PowerPulse (735X048) unit on a forklift to evaluate how well it would help the battery. Every fifteen days he measured the voltage and specific gravity on that battery and another battery not using a PowerPulse in order to compare results. He also recorded the number of operating hours after both batteries were fully charged.



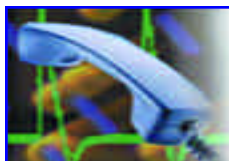
(Top) One of ten forklifts used by the Tai Ku Cola Taoyuan Factory in Taiwan, China. (Bottom) A 48-Volt PowerPulse installed on the motive battery.

RESULTS: After 70 days, the forklift battery without a PowerPulse still only ran for three hours before having to be recharged. At the same time, the battery with the PowerPulse ran for three hours and fifty minutes. That's a 22% increase in run time*. Based on that, the manager decided to install a PowerPulse on all their forklifts.

It should also be noted that if PowerPulse had been installed to the battery when it was new, it would, in most cases, keep the battery plates clean so the battery would still operate at its original eight hours*.

LEARN MORE: To see how PulseTech can help increase battery performance see your local PulseTech dealer. For a dealer near you call 1-800-580-7554, or go to www.pulsetech.net.

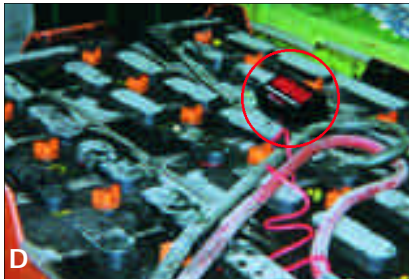
*Results may vary.



Customer Information Line

For a quick recorded presentation on how our products can help your customers, have them call our Hotline at 212-990-6408 (long distance charges may apply).

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) on a bottled water delivery truck.
- B. A police cruiser with a 12-Volt PowerPulse (735X012).
- C. The solar panels of two Industrial 12-volt Solargizers (735X130) mounted on a stored powerboat. Even after sitting unused for months, the boat starts every time.
- D. A forklift battery using a 48-volt PowerPulse (735X024) unit to improve battery reliability.

TECHTALK FAQ

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

Is it possible to recover a dead battery that will no longer accept a charge?

Yes. Although our products are designed for keeping good, new batteries in peak condition for a longer period of time, some of them can, in most cases, be used to bring batteries that will not accept and hold a charge back to useful condition.

Here's what you do: Use a PulseTech 475 (741X475), 490PT (741X490) or 510PT (741X510) Digital Battery Analyzer to determine if the battery is a good candidate for recovery (Note: Even though the analyzer may read "REPLACE BATTERY," it could still be recoverable.)

The ideal way to recover a battery is to use our Pulse Charger®/World Version (746X725). Make sure the cells are filled with distilled water and attach the battery to the Pulse Charger. Set the Pulse Charger in the *Pulse & Charge* mode and watch the charger for 20 minutes. If the *Charge Complete* light begins to flash, it is indicating a problem and the battery is probably not recoverable. If the light does not flash, you can proceed.

Put the Pulse Charger on *Pulse Only* mode and pulse the battery for at least 24 hours; then switch to *Pulse & Charge*. The battery should be fully charged within 14 hours. At that point, the Pulse Charger will

shut off automatically so it won't over-charge. Although it is no longer charging, it will continue to pulse the battery.

You can also use the RediPulse Pro-10® (746X900) and the Pulse Recovery System® (746X650) to recover more than one battery at a time. In the case of the Pro-10, the battery must have at least a charge level of at least 11 volts.

Use the battery analyzers as described above, then attach the battery to a PRS module and pulse for 24 hours. Next, use one of the analyzers to check the battery for improvement. If there has been at least a 20% increase in Cold Cranking Amps (CCA), you may proceed.

Next, attach the battery to the Pulse Charger on *Pulse & Charge* mode and charge it until the charge cycle is complete. If you do not have a Pulse Charger, use a standard charger and attach it to the battery while the battery is still attached to the PRS unit. This way the battery will be charged and pulsed at the same time. Charge the battery for about four hours, then check for improvement.

Keep in mind that some very badly sulfated battery plates could take several days to clean. Also, not all batteries can be totally recovered. If a battery has a short circuit or physical damage, it is impossible to bring back. 🛑

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 or e-mail us at ppcmarketing@pulsetech.net.

