



HAWKER's High-Frequency, Smart Chargers

HAWKER's high-frequency, smart chargers deliver the greatest efficiency, highest power factor, and highest charge effectiveness available in the industry. HAWKER's **IONIC** patented charge profile:

- 1. Reduces utility consumption and demand while prolonging battery life**
- 2. Reduces water usage**
- 3. Increases productivity**

HAWKER's **LIFEPLUS® TC3-W** and **LifeSpeed™ 3000** high-frequency, smart chargers offer the operational flexibility of **IONIC**, opportunity, and fast charging with the greatest electrical efficiencies. This means battery changes are eliminated, productivity is improved, utility consumption is decreased, and operating costs are reduced. The **POWERTECH™ High-Frequency Intellicharger™** assesses and adjusts to each battery's charging requirements through its patented **IONIC** charge profile. The end result is higher specific gravity and longer run time.

At HAWKER, we help our customers design power systems to meet their unique needs and requirements.

HAWKER, the industry leader in high-frequency charging solutions for more than 25 years!



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Excellent Story of How Smart Charging Technology Benefited North American Manufacturer

What was the problem?

For many years, a manufacturer had been using 3 batteries per truck in order to meet their power needs. They were having difficulty getting the employees to change batteries and, as a result, many of their batteries were being over-discharged, while the remaining batteries were sulfating due to lack of use. When the replacement costs for over- and under-utilized batteries became excessive, the company turned to the local HAWKER representative for a solution.

How was the problem discovered?

The manufacturer was faced with having to replace in excess of 50 percent of their battery fleet across many plants in North America. After contacting the HAWKER rep, an operational assessment was conducted on the company's energy usage and power needs. It was discovered that the manufacturer had too many batteries in their fleet to handle the workload, and that the need to purchase so many replacement batteries was actually overstated.

What were the alternatives/challenges?

Based on the data collected from the operational assessments, HAWKER presented two options to the company. The first was simply to reduce the size of the fleets in order to more efficiently address their power needs. This solution, however, would only help in correctly sizing the fleets for the company's power needs; it would not address the difficulties that the customer had in changing batteries.

The second solution, which was strongly recommended, would allow the manufacturer to minimize battery change-outs by instituting an opportunity charging regimen. This was accomplished by the company purchasing LifeSpeed™ 3000 chargers and LIFEPLUS® TC3 chargers. These chargers, coupled with HAWKER's ENERGY-PLUS™ batteries for the high power usage applications and WATER LESS® batteries for reduced maintenance applications, were the right combination to meet the manufacturer's power needs.

What was the solution?

Despite the change in operational procedures required within the new opportunity charging regimen, the company chose to utilize the solutions offered by HAWKER to increase their productivity with the LifeSpeed™ and LIFEPLUS® chargers coupled with ENERGY-PLUS™ and WATERLESS® batteries. This allowed the customer to more correctly size their fleets and greatly reduce problems in battery change-outs.

How is the solution working?

Three years after their initial purchase of the HAWKER solutions, this customer is experiencing increased battery productivity, decreased change-out problems, and reduced energy consumption from their industrial battery chargers. When capital budgets have been affected by a poor economy in North America, the solutions offered by HAWKER have also enabled the manufacturer to function with very little disruption to their material handling efforts.

ANOTHER HAWKER SUCCESS STORY!



For additional information about HAWKER's high-frequency charging solutions, please call **877-7HAWKER**.