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DPMC Awarded Patent for an Improved System & Method for Monitoring State of Health of Battery Based Power Systems

Pioneer establishes industry standard for critical battery backup systems that deliver uninterrupted power and protect increasingly complex IT systems from inevitable power grid outages

September 10, 2009 -- San Anselmo, CA -- Data Power Monitoring Corporation (DPMC), a pioneer of battery monitoring systems and related services, announced today that U.S. Patent number 7,576,517 has been awarded by the U.S. Patent and Trademark Office for key technologies and methods for its "System And Method For Remote Monitoring Of Battery Condition." This patent has already been commercialized by DPMC and is in force today supporting thousands of critical backup battery systems via DPMC's unique battery automated reporting system or "BAR" managed services offering.

"Today's society is increasingly dependent on IT systems that rely on continuous backup power or stored energy to deliver financial transactions, reliable cell phone service, email systems, security systems, and more," said Steve Cotton, president of DPMC. "The BAR system serves as a foundation of DPMC's scalable monitoring programs and is unmatched in the way it integrates software as a service and methodologies with our skilled battery experts."

The BAR interface works with all leading industry battery monitor offerings and incorporates key battery related IEEE standards into DPMC's technology and methodologies. The BAR system is the result of over 6 years of development, and is built on a UNIX platform for maximum reliability and scalability.

The patent covers technologies and methodologies related to the ability to remotely communicate with any type of battery monitor device, and to standardize and graphically display data collected for a common user friendly web-based interface with continual embedded and contextually sensitive human analysis of data and recommendations by battery experts. This combination of standardized reporting and human analysis provides both extremely high uptime of backup power systems as well as life extension of perishable battery assets –which save millions of dollars for each of DPMC's customers.

Secure, Easy-to Access by Web Browser or Mobile Device

DPMC uses these patented technologies to provide a web-based system accessible via browser or mobile devices. This offers customers constant connection to a powerful service that can provide a quick view of data and analysis of hundreds of sites to identify potential trouble points – and also to pre-empt developing problems before they lead to failure. The pre-emptive framework is used as the foundation for DPMC's battery monitoring and remote monitoring systems supporting Uninterruptible Power Systems (UPS) at computer data centers, and other critical applications which depend on power continuity for continuous uptime.

DPMC developed the BAR as a solution for companies challenged by multiple monitoring platforms from one or several manufacturers whose databases are time consuming and expensive to consolidate, and may lack comprehensive reporting capabilities for mission critical systems with little room for error or delay in predicting and pre-empting failure.

“Periodic manual monitoring, as is the status quo in traditional systems, can provide only a temporary indication of the battery condition and achieving certain reliability requires a combination of automated data collection, storage and trending combined with analysis by experts who knows how to interpret the data and act,” added Cotton.

The BAR also offers cost-effective daily battery monitoring using data trending to reduce reliance on traditional and expensive manual maintenance methods which only provide periodic spot checks. Key performance trends are accelerated by the BAR which stores archived data to determine various characteristics of the batteries monitored. Trends of several data points may be monitored to indicate each individual battery’s state of health including Ohmic (resistance or impedance) value, temperatures, voltage, or time periods for batteries used to power customers’ systems.

About DPMC

DPMC has been widely-recognized as an industry pioneer in establishing a standard of excellence and driving international IEEE battery related standards for battery monitoring systems and services since 1991 for enterprises that manage and maintain mission-critical facilities and depend on uninterrupted backup power systems. The company has deployed and monitored over 10,000 monitors globally in both single and multi-site locations to track over a million battery cells/jars without a single battery-related power failure during the course of its history. DPMC’s BAR has over 335 million data points and is the world’s most comprehensive battery performance database. DPMC is headquartered in the San Francisco Bay Area with additional office locations in Sacramento, Ohio, Michigan and New York.

www.dpmc.com

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Editor’s Note: For more information about the BAR please visit: <https://datapowermonitoring.com/bar.html>
Screen images available upon request.

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