



Power Innovations
INTERNATIONAL, INC.

Case Study 1500

Davis Electric and Power Innovations Provide State of California with More for Less- With a Q-LS™ Series System

The Customer

Davis Electric is an electrical contracting company that serves northern and central California. The company focuses on commercial and industrial power distribution, as well as generator backup and uninterruptible power supply (UPS) solutions. Headquartered in Sacramento, Davis Electric has over 28 employees and exceeds \$4.5 million in annual sales.

Davis Electric is familiar with the need for power quality and power backup for both large and small scale applications. With the power shortage problems plaguing California, Davis Electric is well aware of the need for and importance of dependable power solutions.

The Challenge

Bidding on electrical contracts is the primary means of generating business for Davis Electric, and pricing is typically the major issue in winning bids in this highly competitive industry. Davis carefully looks at its vendors' equipment as the company tries to supply efficient, cost-effective solutions in all electrical equipment and provide the highest levels of quality and reliability. Davis' good reputation in winning contracts and sustaining business is enhanced by providing safe and proven solutions that supply sensitive electrical equipment with pure, reliable electric power.

When bidding to supply the state of California's data center with a large UPS system, Davis Electric needed an efficient, cost effective solution that would not only provide battery backup for the center's mission-critical operations, but also ensure power quality.

The Solution

Davis Electric chose a Power Innovations Q-LS™ Series Uninterruptible Power Quality™ (UPQ™) system, with enhanced features, and still won the bid by being competitive on price. The Power Innovations Q-LS Series provides the state of California Data Center with clean, consistent power to protect critical information. The system also increases performance of electrical equipment, while contributing to a substantial cost savings by eliminating downtime and preserving the life of connected equipment.

Advantages of the Q-LS Series

The Q-LS Series is highly efficient, and provides battery and system monitoring and management, as well as easy maintenance and service of critical electronic equipment.

High Efficiencies

The high efficiencies of the Q-LS Series provide less heat dissipation, less noise, and longer backup times. This Q-LS Series can save, in operational costs alone, up to \$12,000 annually in power bills.

Davis Electric

INDUSTRY SERVED

Electrical Contractors

CHALLENGE

Davis electric needed an efficient, cost-effective solution that would not only provide battery backup for the center's mission-critical operations, but also ensure power quality.

SOLUTION

The Q-LS™ Series provides the state of California data center with clean, consistent power to protect critical information.

ADVANTAGES

- High Efficiencies
- Battery Management
- Ease of Maintenance and Service
- Remote Monitoring

Battery Management

All large systems utilize expensive battery banks. Ordinary UPS systems on the market use the batteries as part of the conversion process. Using batteries in this way damages the batteries over a short period of time, leaves the systems vulnerable to failure in a power loss situation, and shortens battery life.

The design of the Power Innovations Q-LS Series system allows total isolation, regulation, and regeneration of power without using the batteries. By eliminating the use of the batteries in the power conversion process, Q-LS Series systems are not vulnerable to failure in the event of power loss and do not require frequent battery replacement. Batteries, which are used only for supplementing power in a power loss situation, can also be locally or remotely monitored and managed.

Ease of Maintenance and Service

The display panel of the Q-LS Series provides detailed status and function information. Each circuit board has an LED indicator, which alerts the system administrator to error status and allows for immediate problem isolation and maintenance. The Q-LS Series is designed for ease of maintenance and service. All serviceable parts and components are located on slide trays and rails for quick access and repair. To ensure safety of the technician, high voltage areas have also been secluded.

Remote Monitoring

The Q-LS Series provides the option of local monitoring and management via a local RS232 serial port, and can be remotely monitored and managed using a UPQnet-agent II™. The UPQnet-agent II uses Simple Network Management Protocol (SNMP) to communicate with the Q-LS Series system. This universal protocol allows for Internet access of real-time power status and history reports. The UPQnet-agent II provides the flexibility to monitor and control power from within the data center network, from a remote location via an Internet connection or direct dial up, and from handheld devices such as PDAs or cell phones.

Power Innovations

Launched in 1997, Power Innovations has pioneered a revolutionary set of solutions to generate, store, and manage AC power. Power Innovations' mission is to provide and manage continuous high-quality power in conjunction with, or even independent of, utility services worldwide. Power Innovations is helping forward-thinking companies accomplish this goal through a new class of technology called Uninterruptible Power Quality (UPQ).

Today, Power Innovations' UPQ systems, coupled with its UPQnet-agent II™ IP management tools, assist organizations of every size in addressing the key issues surrounding power management.

Power Innovations' long term strategy includes fully integrated power management and control, storage, and generation for total power independence. Power Innovations' line of power management products is currently being marketed. The company is involved in the development of a spectrum of solutions for power storage. Currently Power Innovations offers a variety of alternative generation options. In the near future, Power Innovations plans to introduce the PowerWell™, a revolutionary solution to provide green renewable energy generation for homes and business, with or without grid interaction.

Powering Life

Powering Miracles
Powering Peace of Mind
Powering Life's Connections
Powering the Human Spirit
Powering Freedom
Powering Innovation



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