



Power Innovations
INTERNATIONAL, INC.



Application Note 5101

Normal Maintenance and Service Problems Avoided with the Q-LS™ Series

The Challenge

Maintenance and service of large-scale uninterruptible power supply (UPS) systems can be very costly and restrictive. Having a UPS that allows system faults to be quickly found and resolved while minimizing system downtime is imperative.

To repair a UPS system, owners are usually dependant on manufacturers and service providers. In order to avoid downtime and loss if a system failure occurs, maintenance contracts, which require businesses to utilize trained, specialized technicians to service equipment, are purchased. Waiting for such service can ultimately cost the business critical time and money.

The Solution

The Power Innovations Q-LS™ Series of Uninterruptible Power Quality™ (UPQ™) products has been built for reliability and serviceability. When performing maintenance checks, doors and slide rails facilitate easy access and removal of all critical components. For ease in troubleshooting, all critical components in the Q-LS Series self diagnose. As a safety precaution, serviceable parts have also been positioned away from dangerous high-voltage areas.

Plug and Play Modules

Plug and play modules of high-stress, high-voltage switching electronics make serviceability virtually effortless. Circuit trays can be replaced in a matter of minutes. Tray components can also be serviced and put back into use while the system is running.

Hot Swappable Battery Modules

In order to minimize system downtime, battery modules can be swapped and serviced while the system is running.

Enhanced Diagnostics and Indicators

Enhanced diagnostics and indicators identify existing and potential problems on printed circuit modules. LED indicators light up and alert the technician to a system fault. In order to service the system, adjustment or replacement of the module is the only maintenance required.

System Status and Warning Indicators

On the front panel of the Q-LS Series, extensive user status and warning indicators monitor and display the critical functions and status of the system.

Q-LS™ Series Maintenance

CHALLENGE

Maintenance and service of UPS systems are costly and restrictive.

SOLUTION

The Q-LS™ Series was developed and built for reliability and serviceability.

ADVANTAGES

- Plug and Play Modules
- Hot Swappable Battery Modules
- Enhanced Diagnostics & Indicators
- System Status and Warning Indicators

Additional Benefits

In addition to providing power quality, Power Innovations also enables remote monitoring and control of critical operations. With the UPQnet-agent II™ – via a network, an IP address, or a dial-up connection – a comprehensive, easy to understand, and secure Web page provides the vital information necessary to manage the Q-LS Series.

Power: The Critical Need

In the corporate world, as well as in the consumer community, predictable, pure electric power is a necessity. Current utility power is not reliable. Without clean, consistent power, today's technologies cannot function properly, and operations and service are compromised or cease.

Fluctuations in power supply—spikes, dips, brownouts, noise, and frequency variations—can all lead to a crippling loss of data resources. The effects of these problems range from erratic operation to hardware damage to irreversible losses of mission-critical data and operations.

Competing Technology

In the past the number one issue in dealing with power was the backup of equipment in the event of power failure. The basis of typical UPS machines and generators on the market today is still backup power; however, electrical equipment requires a new level of power generation and management tools that extend and enhance this most critical resource.

Power Innovations' Uninterruptible Power Quality (UPQ) systems address today's number one power issue—power quality. While Q-LS Series systems efficiently handle power backup, they are also designed to accept the power that is available, regardless of quality, and then isolate, filter, and regulate that power to provide pure, clean, reliable power to connected equipment.

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. On its own, this is an area of tremendous need and opportunity that has Power Innovations poised for long-term success.

Power management is just one arm of Power Innovations' long-term strategy. The company is involved in the development of a spectrum of solutions for power storage. Ultimately, Power Innovations will premier revolutionary solutions for the generation of new power. Together, these three areas are the foundation of Power Innovations' long-term strategy.

Powering Life

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



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