



Power Innovations
INTERNATIONAL, INC.



Case Study 1901

Oceaneering's Power Quality Needs are Met Through The Q-LS™ Series

The Customer

Oceaneering is a global oilfield provider of engineered services and products primarily to the offshore oil and gas industry, with a focus on deepwater applications. Oceaneering's mission is to increase the net wealth of its shareholders by providing safe, cost-effective, and quality-based technical solutions satisfying customer needs in harsh environments worldwide.

Oceaneering is one of the world's largest designers, manufacturers, and operators of drilling services. One of the many products manufactured by Oceaneering is the blowout preventer (BOP) control system. The BOP sits on top of a wellhead, as well as throughout various controls systems. The BOP can partially close off the flow of oil from a well, and in extreme cases, completely pinch off the pipe coming from the well.

The Challenge

As energy production reaches into deeper waters and reservoirs, producers and drilling contractors must have blowout preventers that protect personnel, property, and equipment at exceedingly high pressures and temperatures. BOP is the last line of defense to stop an ecological disaster.

In order for everything to function with precision, quality power is critical. Oceaneering needs constant, reliable power for critical applications in the drilling industry.

The Solution

Critical power applications require the highest levels of performance, reliability, flexibility, and serviceability. Power Innovations customized their Q-LS™ Series of Uninterruptible Power Quality™ (UPQ™) technology to meet the precise needs of Oceaneering.

These UPQ systems aide Oceaneering in maintaining its world class, high-pressure, high-temperature performance. The systems provide quality power to the BOPs sub-sea and surface controls.

Advantages of the Q-LS Series

Customization

System Customizations for Oceaneering were Power Distribution Units (PDU) and Break-Before-Make Switches.

Longer Backup Time

Less energy is spent in the conversion and generation processes. Making for a 10% longer run and backup time, using the same amount of battery capacity.

Oceaneering

INDUSTRY SERVED

Oil Exploration and Research

CHALLENGE

For the blowout preventer (BOP) to function with precision it must have constant, reliable power.

SOLUTION

The Q-LS™ Series aides Oceaneering in maintaining its world class, high-pressure, high-temperature performance.

CUSTOMIZATIONS

- Power Distribution Units (PDUs)
- Break-Before-Make Switches

ADVANTAGES

- Longer Backup Time
- No Current Inrush
- Custom Input and Out Requirements
- Protected from User Error
- Enhanced Diag Provides comfort

No Current Inrush

UPQ technology protects input sources and circuits, minimizing power fluctuations, harmonics, and faults induced back into the feed circuits.

Custom Input and Output Requirements

The system can deliver multiple voltage output levels, depending on the need.

Protected from User Error

UPQ technology identifies installation and operational errors, and then autocorrects and inhibits improper use or connectivity.

Enhanced Diagnostics and Indicators

UPQ technology identifies existing and potential problems in printed circuit modules. LED indicators light up and alert the technician to a system fault.

Conclusions

“When Oceaneering began looking for a system that would provide quality power, as well as battery backup, our requirements were that they had the highest levels of performance, reliability, and flexibility. We are confident the Power Innovations’ UPQ systems meet those requirements,” says Joe Alcala Project Engineer of Oceaneering.

Competing Technology

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

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.

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- Joe Alcala
Project Engineer
Oceaneering



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