

APPLICATION: PHARMACEUTICAL
INDUSTRY

POWER PLANT: 1 UPS X 300KW
AND 1 GENERATOR X 500KVA

LOCATION: UNITED KINGDOM



PROTECTING BUSINESS CRITICAL LABORATORY EQUIPMENT

Kohler was recently selected to provide an uninterruptible power supply and generator for essential laboratory equipment for a leading UK-based pharmaceutical organisation.

Kohler worked on the project alongside the main construction contractor Insite Group – established in 2004 they specialise in construction services to provide a complete, holistic contracting service. Insite Group ensure every aspect of the client’s needs are met and exceeded.

Scott McMillan, Group Managing Director, comments: *“Kohler was selected as our partner because of its excellent reputation, product performance and quality of customer service. A power outage would have had incredibly damaging implications as it will require items to be re-validated, taking several weeks and potentially costing thousands in lost revenue.”*



Backup energy for a critical installation

After all the information was obtained from Insite Group and the End User pharmaceutical company, Kohler was able to recommend a suitable solution for critical power protection.

Rob Taylor, UK Hardware Sales Director for Kohler Uninterruptible Power, comments: *“After a rigorous selection process to meet the customer’s requirements, we put forward a PowerWAVE 9250DPA 300kW working in conjunction with a KOHLER-SDMO V500C2 500kVA generator.*

He continues: *“The safest, most reliable and ultimately most cost-effective way of specifying and achieving a well-matched generator and UPS power supply pair is to discuss your requirements with a UPS and generator supplier that has the experience and the products to assemble the right package. We supply both uninterruptible power supplies and backup generators and through many years of experience, we are very well placed to bring them together into integrated UPS solutions with assured interoperability.”*

A major project, awarded for the winning combination of market-leading Generator and UPS

The PowerWAVE 9250DPA is a true modular uninterruptible power supply, scalable from 50kW up to 1.5MW, for power applications in critical, high density computing environments, such as pharmaceutical facilities.

This UPS works with a KOHLER-SDMO V500C2 500kVA generator, a high performance three phase standby diesel generator with an industry leading Volvo engine.

The UPS ensures power quality while the mains supply is available and provides emergency power supply backup from their energy storage resource when it isn't. One inevitable problem with energy storage, typically provided by lead-acid VRLA batteries, is that its capacity is always finite.

While extra UPS battery banks can increase capacity, the risk of an extended blackout exceeding this cannot be eliminated. Accordingly, with business-critical applications such as pharmaceutical, where even a short shutdown is not an option, generators can complement its UPS.

Unlike UPS batteries, standby generators can support the critical load through any length of blackout, provided they are adequately fuelled and maintained. However, there is a range of electrical and mechanical factors to consider when pairing a backup generator system and UPS power supplies within a secure power protection system.



Learn more about how UPS and generators work together

Watch this free On Demand Webinar: [Sibling Harmony – Using Generators with UPS](#)

In this CPD accredited webinar by Kohler Uninterruptible Power and supported by KOHLER-SDMO, the reasons for deploying a generator as well as an uninterruptible power supply (UPS) system will be discussed along with the various considerations for specifying and installing a back-up generator.

In addition to looking at fault clearance and neutral-earth referencing, areas that experience shows can often be problematic when using these sibling technologies together, it will also highlight what information and questions to have ready when approaching a potential supplier.

