

A CASE STUDY FROM KOHLER UNINTERRUPTIBLE POWER

Protecting business critical laboratory equipment

Kohler Uninterruptible Power (KUP) was recently selected to provide an uninterruptible power supply and generator for essential laboratory equipment for a leading pharmaceutical organisation.

KUP 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: *"KUP 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."*

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

Rob Taylor, UK Hardware Sales Director for KUP, 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 SMDO 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 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."



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 SMDO V500C2 500kVA generator, a high performance three phase standby diesel generator with an industry leading Volvo engine.

UPS ensure power quality while the mains supply is available and provide 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 in 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.