Success Story:
Roche Diagnostics Rus LLC

Markets Served
Pharmaceutical

Eaton Ensures Reliable and Uninterrupted Operation of Laboratory Equipment for Swiss Pharmaceutical Company

Location:
Krasnodar, Russia

Segment:
Data Centre

Problem:
Ensure uninterrupted power to sensitive medical equipment when it is operating under heavy load.

Solution:
A double conversion UPS protecting equipment from all power problems, removing line noise from the grid and ensuring clean, uninterrupted power output.

Results:
Reliable and uninterrupted power has helped to extend the service life of expensive medical equipment and ensure energy efficient operation.

Contact Information

Marika Sinikari
Marcom Program Manager
MarikaSinikari@eaton.com

Background

Roche Diagnostics Rus LLC is a division of Swiss pharmaceutical company F. Hoffmann-La Roche Ltd. A world leader in in-vitro diagnostics, tissue-based cancer diagnostics, and a frontrunner in diabetes management, Roche offers a broad range of diagnostics and monitoring products and services. Its solutions span all sectors of the market: from small hand held devices used directly by patients or healthcare professionals, to large diagnostic instruments found in laboratories. The company's molecular diagnostic systems are often used in medical practice to detect bacterial infections, such as hepatitis virus, HIV and papilloma virus.

Challenges

The pharmaceutical company wanted to ensure uninterruptible power for laboratory analysis taking place at its Kuban Regional Laboratory Research Centre in Krasnodar, Russia. The centre features cutting-edge equipment for studying samples of blood and other bodily fluids, and has Russia's first programmable transport system for moving sample test tubes without an operator.

Reliable and constant equipment operation is of the utmost importance for any medical services company. Medical equipment is very sensitive to power quality from the grid: any line noise or instability can cause failures and breakdowns in expensive equipment that could be vital for human life and health. High quality, safe uninterruptible power sources are needed to ensure a continuous power infrastructure.

Therefore, to meet these stringent demands, Roche was looking for a UPS that was compact and light in order to make the device

"Roche's laboratory research centre serves nearly the entire Krasnodar region. We can't risk our equipment going into standby mode due to unpredicted power outages and now thanks to the Eaton UPS we don't have to worry. The centre's analysers can now work consistently with no disruptions, meaning our clients get their lab results on time"

Sergey Babiy, Roche Diagnostics Rus Manager for the Southern Federal District.

EATON
Powering Business Worldwide

easy to transport and install in facilities of various sizes. It also needed to feature a monitoring system to allow the operator to receive key information about the status of the UPS, such as energy saving, battery time, outage tracking and load profiling. The UPS also needed to have an integrated bypass feature which works alongside a UPS to keep equipment running without interruption by routing mains power through the UPS to the rest of the equipment.

Solution

The optimal solution for Roche is a double conversion UPS, which protects equipment from all power problems, removing line noise from the grid and ensuring clean, uninterrupted power output.

Roche chose Eaton's 93PM double conversion three-phase UPS. When operating in double conversion mode, the 93PM features a market-leading energy efficiency of 96.7 per cent as per IEC standards thanks to its three-level inverter topology, whilst at the same time removing any abnormalities in the utility power. Additionally, the UPS can also offer the lowest possible Total Cost of Ownership by enabling users to take full advantage of the operational efficiency provided by Energy Saver System (ESS) mode. ESS automatically and continuously matches the operation of the UPS to the incoming power quality allowing an efficiency of 99% to be achieved.

As well as this, the 93PM UPS features ABM battery management technology which uses an innovative three-stage charging system to extend the working life of the batteries by up to 50 percent. Furthermore, the UPS has an LCD touchscreen display that provides essential status information at a glance in both graphical and numerical formats. The UPS can also be easily monitored remotely using Eaton's Intelligent Power Manager software, which is fully compatible with all major operating systems and all popular virtualisation platforms, including VMware vCenter, Microsoft Systems Center and Citrix XENCenter.

Results

The Eaton 93PM UPS ensures long-term, reliable and uninterrupted operation of Roche's laboratory equipment even under heavy load. The research centre's system is now protected from failures and long power outages, which is extremely important for laboratory research. In medicine, reliable UPSs quickly pay for themselves by helping to extend the service life of expensive medical equipment.

"Roche's laboratory research centre serves nearly the entire Krasnodar region. We can't risk our equipment going into standby mode due to unpredicted power outages and now thanks to the Eaton UPS we don't have to worry. The centre's analysers can now work consistently with no disruptions, meaning our clients get their lab results on time" says Sergey Babiy, Roche Diagnostics Rus Manager for the Southern Federal District.

Powering Business Worldwide

Eaton LLC
Electrozavodskaya street, 33, building 4
Moscow, 107076, Russia
www.eaton.ru

Publication No. SuccessStoryRoche15
April 2015