

"It is essential for us to ensure that ATMs are in operation 24 hours a day, 365 days a year. Eaton UPSs make this possible".

Ari Partanen, Automatia



Eaton ensures uninterrupted power for all Otto ATMs in Finland

Location:

Finland

Segment:

Power quality

Problem:

Ensure uninterrupted and efficient power supply to Automatia's Otto ATMs in Finland

Solution:

Eaton 9130 1,000 VA tower model UPS

Results:

Eaton UPSs ensure safe, reliable power to all 1,640 Otto cash machines in Finland and help achieve a utilisation rate of 98.5 per cent. The UPSs' effective remote control, smart energy management and easy maintenance enable Automatia to cut operational and service costs.

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Background

Automatia, the biggest and most significant cash distributor in Finland, operates 1,640 ATMs throughout the country. The company is owned by the three biggest banks in Finland and has worked with Eaton since 1999. In that time, Eaton has executed over 3,000 Uninterruptible Power Supply (UPS) implementations in Automatia cash machine locations around the country.

With a higher rate of use, on average, than ATMs deployed elsewhere in Europe, Automatia's ATMs have a minimum operational lifespan of ten years. The ATMs are manufactured by two different companies: NCR and Wincor Nixdorf. Automatia gets cash in transit (CIT) services from global companies G4S and Loomis, while a Finnish company, Tieto, provides the host system. Fujitsu Services has provided ATM software and Fujitsu is also responsible for maintenance of both the ATMs and the UPSs.

Automatia's UPSs need to be maintained once every three to five years.

All ATMs in Finland are EMV compliant. EMV is the international chip card standard for the inter-operation of integrated circuit cards and ATMs, used to authenticate credit and debit card transactions. Automatia constantly develops its equipment to make sure its ATMs meet the latest standards and security challenges.

Challenges

Every day, thousands of people across Finland use one of Automatia's Otto cash machines to withdraw money. These common but vital transactions cannot be secured without uninterrupted power. Wherever the customer is – even high up in the northernmost corner of Finnish Lapland – the availability of cash and the security of the safe in the case machine must be guaranteed.



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The biggest challenges for cash machine operations in Finland are long distances and extreme weather. In the winter for example, the temperature can drop as low as minus 35°C, and there is always the risk of heavy snow. This means proper maintenance and the ability to monitor and manage

Solution

The power supply in all of Automatia's 1,640 cash machines is now secured by Eaton 9130 1,000 VA tower model UPSs, which cut energy costs while significantly extending battery service life. The 9130 has double-conversion topology that constantly monitors power conditions and regulates voltage and frequency. The online double-conversion topology and pure sine wave output provide protection from all nine of the most common power interruptions. Even when presented with the most severe power problems, the UPS's output remains within 3 per cent of nominal voltage. It also enables prolonged runtime of essential equipment during power outages by allowing for orderly, remote shutdown of non-critical systems and processes, thanks to its ability to control load segments.

Eaton UPSs provide high-density protection for Otto cash machines with hot-swappable batteries and an internal maintenance bypass switch that allows the UPS to be serviced without interrupting the power supply. Eaton UPS output sockets are individually controlled to provide load-shedding, maximising the backup time and providing a remote on/off connector.

In addition, the 9130 UPSs use Eaton's ABM@ advanced battery management technology



with an efficiency rating of 95 per cent in online double-conversion mode and up to 98 per cent in high-efficiency mode. The smart technology uses an innovative three-stage charging technique that only recharges the battery when necessary, so the battery experiences less corrosion and its service life is prolonged by up to 50 per cent.

As part of its on-going modernisation efforts, Automatia is in the process of replacing 300 of its ATMs with more advanced machines. These new cash machines are equipped with the latest technology, including Eaton's new rack and tower model UPSs.

"It is essential for us to ensure that ATMs are in operation 24 hours a day, 365 days a year. Eaton UPSs make this possi-

ble," says Ari Partanen, Head of ATM Services at Automatia. "In light of our successful cooperation with Eaton in recent years, the company was a natural choice as a service provider now that we are renewing our equipment."

Results

Eaton UPSs secure the power supply in all 1,640 Otto cash machines, including the 300 new ATMs which are part of the latest modernisation initiative. The devices help Automatia cut costs thanks to their effective energy management, remote control and easy maintenance. ABM also contributes to cost savings while significantly extending battery service life. The Eaton 9130 1,000 VA tower model UPSs used in the ATMs minimise all unexpected power failures and

make sure people can access their money when and where they need it.

"With Eaton's remote reboot function we can control the machines and make sure that in an emergency they can be gracefully shut down," explains Ari Partanen. "Eaton UPSs allow the cash machines to achieve an utilisation rate of 98.5 per cent, which is an excellent achievement."

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