

Kenya Airports Authority Expands Region's Largest Airport, Backed by Tripp Lite Protection



SUMMARY

Customer

Kenya Airports Authority (KAA) manages the majority of the country's airports, including Jomo Kenyatta International Airport (JKIA) which is undergoing a multi-year expansion project.

Goal

Protect current and future airport infrastructure by providing reliable power that prevents equipment downtime.

Solution

SmartOnline™ Modular 3-Phase UPS System
• SU120KX2

Results

Competitor equipment switched out; as the expansion project continues, the airport will continue to back up new equipment.

“In an airport environment, any system downtime at all can result in a huge logistical headache. We chose a UPS based on our current and expanding needs. Tripp Lite ended up fitting us perfectly.”

—Jacinta M. Mutuku
KAA ICT Data Centre Project Manager



Customer

Kenya Airports Authority (KAA) manages over a dozen international and domestic airports in Kenya, including Jomo Kenyatta International Airport (JKIA) — the busiest airport in East and Central Africa. Named after Kenya's first president, JKIA coordinates over 100 domestic and international flights daily. Constructed in 1978 to accommodate 2.5 million passengers annually, foot traffic at JKIA has since almost tripled as Kenya has become an important region of economic growth. According to KAA officials, this number continues to grow at 10.7% per year. Modernisation and expansion initiatives, including implementation of self-service check-in kiosks, contemporary security equipment, new runways and terminal additions, have been undertaken to keep up with demand.

Goal

JKIA's objective is to provide world-class aviation infrastructure. Thus, the airport's data centre is vital in ensuring that flights take off and land on time, as well as powering new and existing digital components throughout the airport. In a region where electricity is unstable, backing up this data centre with a quality power source is a necessity. So when KAA officials needed to back up their power to ensure smooth facility operation, they turned to the power protection experts at Tripp Lite.



The first goal was to replace their current uninterruptable power supplies (UPS) with a brand whose equipment could better suit airport needs and keep up with the multiphase expansion. Downtime could mean data loss in critical systems and business disruption, resulting in rescheduled and missed flights. Tripp Lite UPS systems prevent problems by converting incoming (raw) AC power to DC power, and then converting it back into pure sine wave AC output. “If raw power goes to the data centre, then it will be a huge loss for KAA. Hence, it is important to connect reliable UPS Systems to protect our equipment in the data centre,” said Jacinta M. Mutuku, ICT Data Centre Project Manager for KAA.

Kenya Airports Authority Expands Region's Largest Airport, Backed by Tripp Lite Protection



SUMMARY

Customer

Kenya Airports Authority (KAA) manages the majority of the country's airports, including Jomo Kenyatta International Airport (JKIA) which is undergoing a multi-year expansion project.

Goal

Protect current and future airport infrastructure by providing reliable power that prevents equipment downtime.

Solution

SmartOnline™ Modular 3-Phase UPS System
• SU120KX2

Results

Competitor equipment switched out; as the expansion project continues, the airport will continue to back up new equipment.

Solution

SU120KX2 SmartOnline™ Modular 3-Phase UPS System

- Protects connected equipment from the harmful effects of blackouts, brownouts, over voltages, spikes and line noise
- Parallel capability (up to four units) expands load capacity and provides fault redundancy; 120kVA individual capacity, 480kVA in parallel
- On-line, double conversion operation delivers pure sine wave AC output
- Provides reliable battery backup power to ensure continued operation of vital systems; enables data saves and facilitates orderly system shutdown in chaotic environments
- Includes PowerAlert software, enabling remote monitoring and equipment control from anywhere



Results

It was important for IT personnel to choose a brand that would protect the whole data centre — a place that contains high-end servers and mission critical equipment.



The KAA switched from several 20kVA competitor models to four SU120KX2 SmartOnline 120kVA 3-Phase UPS Tripp Lite models, connected in a parallel configuration for redundancy operation. The equipment supports the load of critical data centre components during power failure, while regularly filtering out line noise. As the JKIA expansion project continues, the KAA will continue to back up the equipment that powers this new infrastructure. "In an airport environment, any system downtime at all can result in a huge, logistical headache. We chose a UPS based on our current and expanding needs. Tripp Lite ended up fitting us perfectly."

About Tripp Lite

Since 1922, Tripp Lite has established a global reputation for quality manufacturing, superior value and excellent service. Tripp Lite makes more than 2,500 products to power, protect and connect electronic equipment, including UPS systems, replacement batteries, PDUs, rack systems, cooling solutions, surge suppressors, KVM switches, IP console servers, cables, display solutions, power strips and inverters. Headquartered in Chicago, Tripp Lite maintains offices worldwide.