



## CASE STUDY

# Tripp Lite Protects Advanced Medical Equipment at Metropolitan Vivian Pellas Hospital



### SUMMARY

#### Customer

Metropolitano Vivian Pellas Hospital is a leading hospital in Nicaragua and Central America. It is the only hospital in the region and one of only 388 in the world accredited by the Joint Commission International. Thanks to its international reputation for excellence and patient safety, it is a popular destination for medical tourism.

#### Goal

To protect valuable advanced medical equipment against power problems and ensure they are operating at peak performance at all times to provide the highest level of care to patients.

#### Solution

SmartOnline Double Conversion UPS System:

- 2 x [SU80KX/40C](#) in parallel (160 kVA)
- [SU100KX2](#)
- [SU40K](#)
- [SNMPWEBCARD](#)

#### Results

Medical equipment, such as scanners, hagiographers and hemodialysis are protected against power problems and the hospital remains powered and operational at all times, allowing for the high level of care their patients expect.

#### Customer

Metropolitano Vivian Pellas Hospital began operations in Managua, Nicaragua in 2004, and quickly earned one of the best reputations among hospitals in Central America. Since its inception, the vision of the hospital has emphasized the need to establish the highest quality patient care and medical services in Nicaragua. It is the only hospital in Nicaragua and one of only 388 in the world accredited by the Joint Commission International, considered the gold standard in global healthcare. Thanks to this accreditation and its reputation for excellence, Metropolitan Hospital is also a popular destination for medical tourism.

#### Goal

Metropolitano Vivian Pellas Hospital has a reputation for being an innovative hospital at the forefront of technology, with many advanced medical devices and machines, particularly for imaging. Medical equipment such as scanners, angiography and magnetic resonance imaging machines are very sensitive, and require a reliable, clean power supply for maximum service. A power failure could cause irreversible damage to these devices that often contain important, private patient health data. Unforeseen power supply problems could lead to the loss of said data, and may disrupt the operation of the machines, causing delays in care and a decrease in the quality of service provided to patients.

The hospital searched for the highest level of power protection in order to achieve two objectives: protect all their advanced equipment against damage and data loss caused by power problems, and to ensure 100% availability of their systems. They knew a backup power plan was necessary to maintain the quality of care that patients in the hospital expect.

#### Solution

To satisfy the requirements of the Metropolitan Vivian Pellas Hospital, Tripp Lite SmartOnline® UPS systems were installed in various capacities. SmartOnline UPS systems provide optimal power backup with a wide range of advanced features:

#### Ideal AC output protects critical systems

- 100% on-line double conversion operation delivers precisely regulated pure sine wave AC output, isolating critical systems from power problems. Zero transfer time to battery ensures that critical loads will not be disconnected during power failures.



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#### Modular architecture eliminates downtime

- N+1 Redundancy and fault tolerant bypass features keep crucial systems up and running at all times

#### 1:1 generator sizing reduces installation costs

- Advanced IGBT rectifiers produce THDi (input Total Harmonic Distortion) of only 3%, eliminating expensive oversizing requirements for generators

#### Extreme efficiency reduces operating costs

- Efficiency up to 97% significantly reduces power consumption and cooling needs

#### SmartOnline UPS System models implemented in the hospital:

- [SU80KX/40C](#) to protect angiography
- [SU100KX2](#) to protect scanners
- [SU40K](#) to protect chillers for imaging systems

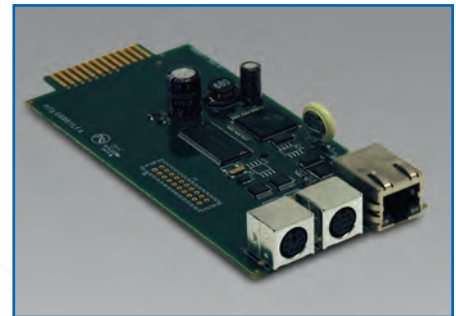
SmartOnline single-phase UPS models are also installed in 3 and 10 kVA capacities to protect hemodialysis and mobile X-ray machines in the operating room.



SU80KX/40C

#### With each UPS, they also use an [SNMPWEBCARD](#) for management:

- Allows users to operate the UPS as a managed device on the network
- Provides remote viewing of electrical site data, UPS self-test, alert logs, electrical problems and more
- Enables remote reboot of locked network devices without interrupting power to other loads



SNMPWEBCARD

#### Results

With the implementation of Tripp Lite UPS solutions, the hospital now has equipment and important information protected across all areas. Since the installation of the UPS systems, they have not experienced any interruption in service due to power failures, allowing the hospital to maintain its reputation of excellence as a healthcare provider.

Currently, Metropolitan Vivian Pellas Hospital is in the process of constructing a new 7,000 square-meter tower. This expansion will house new devices, and to continue providing superior care to their patients, the new equipment will also be protected by Tripp Lite UPS systems.



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