

Riello UPS supports EMERGENCY and the Center for Pediatric Surgery of Entebbe (Uganda).

*Riello UPS donates efficient and reliable UPS to protect critical services
at the new EMERGENCY hospital designed by Renzo Piano.*

Legnago (VR), May 12, 2021. Riello UPS, a brand of the Riello Elettronica group, a world player in the production of static uninterruptible power supplies, photovoltaic inverters and Energy Storage systems, **has donated several of its UPS to ensure continuity and quality of the power supply to critical hospital services, such as operating theaters, analysis and diagnostic laboratories at EMERGENCY's new Center of Excellence for Pediatric Surgery in Entebbe, Uganda.**

This is the second structure built in Africa by ANME, the African Network of Medical Excellence, a health network favored by EMERGENCY and created in 2009 to develop free high-level health infrastructures: specifically, this second project, developed by renowned Italian architect Renzo Piano, saw the participation of Riello UPS alongside Studio TAMassociati and the EMERGENCY technical office for the management of electricity quality.

A virtuous model for an entire continent

The Center for Pediatric Surgery of Entebbe on the shores of Lake Victoria operates according to the EMERGENCY health model, which is based on the principles of Equality, Quality and Social Responsibility (EQS). It guarantees free high-level care in pediatric surgery, with the goal to serve as a point of reference for Ugandan patients and children from all over Africa in need of surgery.

The hospital is not just a model of excellence in the medical field, but also in the fields of environmental sustainability, energy independence and the harmonious distribution of space. In his project, Renzo Piano has in fact foreseen an exceptional and rational use of natural resources such as land, water and solar energy.

A project that perfectly balances tradition and modernity

The new Center was built on a 120,000 square meter plot made available by the Ugandan government, with construction work starting back in February 2017. The construction was built in terra pisé, a traditional, simple and very economical construction technique, which uses raw earth and guarantees thermal inertia while maintaining a constant temperature and humidity in the building. In this way we wanted to restore dignity to the land using the same principles used in the country to build traditional houses.

The hospital can count on 72 beds, 3 operating rooms and offers all the diagnostic and auxiliary services necessary to ensure the best care for its patients. It also includes an analysis laboratory, blood bank, pharmacy, canteen and laundry. Local health and administrative staff also have areas dedicated to training available, while to ensure the best care experience for patients from multiple African countries, a 42-bed guest house has been created, dedicated to them and their families.

The entire project pays particular attention to environmental aspects: the Center boasts a system of about 2,600 photovoltaic solar panels on the roof that meet part of the energy needs of the structure and a garden with 350 trees. In fact, as recent medical studies testify, contact with nature is an important element for the recovery and healing of patients.

Riello UPS to guarantee the quality and continuity of care

In such a structure, it is of vital importance that the systems, diagnostic machinery and especially the operating theaters do not suffer interruptions in operations or, worse still, damage due to poor quality or interruption of electricity.

For this reason, Riello UPS has decided to participate with great enthusiasm in the Center project by donating several uninterruptible power supplies to protect the most strategic areas of the building. In particular, the operating theaters were equipped with 2 Multi Sentry MST 60 kVA in parallel with an autonomy of 60 minutes; the analysis laboratories and

the related computer systems connected to each other were protected with a Multi Sentry MST 125 kVA; diagnostics (TAC) can count on a Multi Sentry MST 80 kVA; the medical gas distribution systems are protected by a Master MPS (MPT) 80 kVA; and the CED operates in complete safety thanks to a Multi Sentry MST 20 kVA.

UPS specifications

The Riello UPS Multi Sentry MST used for operating theaters, diagnostics, analysis laboratories and data centers is characterized by three-phase input and output, with double conversion ON LINE technology according to the VFI-SS-111 classification, as defined by the IEC EN 62040-3. Designed and manufactured by Riello UPS with state-of-the-art technologies and components, they deliver an output power factor of 0.9pf and achieve an efficiency of up to 96%, which saves 35% of the energy dissipated in one year and provides up to 15% more active power than normal UPS available on the market. In this way Riello UPS guarantees maximum protection for the powered equipment, no impact on the power supply line and energy savings, all elements perfectly in tune with the Centre's project philosophy.

For the medical gas distribution systems, Riello UPS technicians opted for the Master MPS MPT 80 kVA, a three-phase input and output UPS, ON LINE with double conversion of the VFI-SS-111 class according to IEC EN 62040-3, with inverter transformer, which guarantees maximum protection and power quality for any type of load, in particular for mission critical applications, safety and electro-medical systems, industrial processes and telecommunications. This UPS makes powering from generator sets and MV/LV transformers more efficient and simple, reducing losses in the system and in the windings, correcting the power factor and eliminating the current harmonics also produced by the loads powered by the UPS itself. In addition, the progressive start-up of the rectifier (power walk-in) and the possibility of reducing the battery recharge current allow to contain the current absorbed at the input and therefore not to oversize the source, in particular if this source is a group generator.

Another feature that makes Riello UPS Master MPS MPT ideal for medical applications is the space required for installation, which is extremely compact; in addition to the overall dimensions, the front access allows maintenance to be carried out on all the most important components of the UPS, making the provision for access via rear or side panels unnecessary. In addition, the upward ventilation allows you to install the UPS on the wall, reducing the space required in the event that the flow of hot ventilation air comes out from the rear.

Information about Riello UPS

Riello UPS is the brand of uninterruptible power supplies for Data Centres, offices, electromedical applications, security and emergency equipment, industrial complexes, and communication systems, designed and produced by RPS S.p.A., a company based in Italy and part of the Riello Elettronica Group. With the Riello UPS brand, RPS S.p.A. is the industry leader in Italy and firmly placed among the top five companies in the world in technological research, production, sales, and assistance. The pursuit of quality, the optimization of resources and a strong drive towards technological innovation, together with seriousness, consistency, and experience, make RPS S.p.A. a company able to meet the needs of a fast-growing market. RPS S.p.A. has two production sites in Italy, 16 subsidiaries placed between Europe, the United States, the United Arab Emirates, China, India, Singapore, Vietnam and Australia, and a presence in over 85 countries worldwide, that offers a very high level of customer service.

For additional information about the company and its products visit www.riello-ups.com

Information about Riello Elettronica

Established and successfully led by Pierantonio Riello in 1986, Riello Elettronica is the holding company of a group of businesses operating in sectors with high technological expertise. Energy represents the core business of the group (design, production, sale, and assistance of UPS and photovoltaic inverters) with the brands Riello UPS and Riello Solartech. This is complemented with work in the Automation and Security areas with the AVS and Cardin brands. The group has seven production sites, 30 subsidiaries in Europe, United States, United Arab Emirates, China, India, Singapore, Vietnam and Australia, and a presence in over 85 countries worldwide that offers a very high level of customer service.

For additional information about the group visit www.riello-elettronica.com

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