

NextEnergy: Riello UPS expands range that redefines the standards for UPS in Data Centres and mission critical applications

New 250 kVA and 400 kVA models for range designed to meet the power requirements of the future with exceptional energy efficiency, flexibility, and low operating costs.

Legnago, 07 May 2019. Riello UPS, a brand of the Riello Elettronica group and one of the top 5 companies in the world for the production of uninterruptible power supplies (UPS), announces the release of two new versions of its NextEnergy range.

The innovative and energy efficient UPS has been reinforced with two new power sizes, **NextEnergy 250 kVA and NextEnergy 400 kVA**, designed to meet the stringent availability needs in mission critical applications such as modern Data Centres. In these environments, a reliable and protected power supply is essential to guarantee regularity of service and business continuity. IT Managers require flexible UPSs that are adaptable to different types of architecture while at the same time ensuring maximum system availability.

Like the rest of the NextEnergy series, the two new power sizes are three-phase UPSs that use the most innovative transformerless online technologies with double conversion, IGBT converters, and three-level controls. Designed to meet the power requirements of the future, they offer very high energy efficiency and low operating costs. The Riello UPS research and development centre has also worked to create solutions that can provide the highest power density on the market.

Furthermore, NextEnergy offers multiple modes of operation to guarantee that energy consumption is always optimised. For example, thanks to the ECS (Efficiency Control System), efficiency in parallel systems is optimised based on the power required at that time.

Excellent performance

The cutting-edge technologies adopted and the careful selection of high quality and reliable components used in the production of the NextEnergy range guarantee "best in class" performance, such as unity power factor (guarantee kW = kVA), the ability to feed critical loads up to 40°C without power downgrades, and extraordinary system efficiency: NextEnergy guarantees up to 97% efficiency in double conversion mode (Online), with an increase up to and above 99% in Eco-Mode or Smart Active.

In addition, NextEnergy introduces a new mode of operation called Active Eco that allows the load to be fed from the bypass line, therefore at very high efficiency, but at the same time also working as an active filter to reduce the current harmonics produced by the users, increasing the power factor towards the entrance network. Active Eco guarantees lower energy consumption and avoids the need for any power factor correction.

Particular attention was paid to the reduction of maintenance costs and the reliability of system operation. For example, Riello UPS has equipped the NextEnergy with an intelligent ventilation control system that constantly adapts to the level of the applied load, in effect delivering a smart cooling system. In addition, each fan is redundant and monitored to report any faults.

"With these new power sizes, our NextEnergy range is expanding to offer the market even greater reliability and lower operating costs;" - says Nicola Caglia, Riello UPS Product Manager - "the UPS not only filters all network disturbances to the load, but it also eliminates the harmonics generated by non-linear loads too."

Nicola Caglia continues - *"Thanks to the possibility of limiting the maximum input power (programmable), the NextEnergy range can be installed in systems with a wide range of power availability, a variety of sources such as diesel generators or energy sources subject to contractual restrictions (obviously in countries where this is possible), or where additional power required is supplied by means of batteries (Peak Shaving)"*.

Installation versatility

The NextEnergy range is able to work with or without a neutral connection. This important function reduces the installation costs of the distribution system: it can be applied, for example, in modern Data Centres or in systems that do not require the use of the neutral line.

The reduced overall dimensions of the cabinet and full accessibility from the front of the UPS for all maintenance activities guarantees optimal use of space. Ventilation takes place from the front to the top, so the UPS can be installed back-to-back or against the wall, optimising the layout of the installation. The models in the NextEnergy range also include cable entry from above or below, eliminating the need to resort to expensive and bulky accessory cabinets.

Maximum reliability and availability

The NextEnergy series implements all the features present in Riello UPS's existing product ranges, such as:

- Parallel configuration of up to 8 units for increased redundancy (N + 1) or power;
- Hot System Expansion (HSE), which allows the insertion of an additional UPS block inside an existing parallel system without the need to switch off the UPS or switch to bypass. This guarantees maximum load protection even during maintenance and expansion activities.

Advanced communications

Particular attention was also paid to system connectivity and monitoring: NextEnergy implements communication interfaces developed specifically for IT Facility Managers and Service Technicians. The 7" colour LCD touch screen display, communication slots, relay cards and specific service connectors simplify the setup, control and monitoring of the UPS. The system can also be easily integrated into any data centre infrastructure management system (DCIM - Data Centre Infrastructure Management).

Information about Riello UPS

Riello UPS is the brand of uninterruptible power supplies for Data Centres, offices, electromedical environments, security and emergency equipment, industrial complexes and communication systems, designed and produced by RPS SpA, 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 5 companies in the world in technological research, production, sales and assistance.

The pursuit of quality, the optimization of resources and a strong push towards technological innovation, together with seriousness, consistency and experience, make RPS S.p.A. a company able to meet the needs of a booming market. RPS S.p.A. has two production sites in Italy, 16 subsidiaries in Europe, the United States, the United Arab Emirates,

China, India, Singapore, and Australia, and a presence in over 80 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

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