

Riello UPS Sentinel Tower: Made in Italy solution for the lighting and electrical market

Riello UPS presents the only entirely Made in Italy 5-10 kVA/kW solution on the market designed for safety devices and telecommunications systems.

Legnago, 23 May 2019. Riello UPS, a brand of the Riello Elettronica group, a global player in the production of static uninterruptible power supplies, photovoltaic inverters and energy storage systems, presents the new Sentinel Tower, the ideal solution for the protection of mission critical applications such as security devices and IT or telecommunications systems.

Sentinel Tower can supply various security systems, such as emergency lighting or fire protection systems, typically found in the transportation or health care sectors, along with other public institutions. It is designed and manufactured in Italy - the only product on the market for this range of power - with state-of-the-art technologies and components to guarantee maximum protection of the powered utilities, no impact on downstream systems, and high energy savings.

The Sentinel Tower series is available in 5-6 kVA/kW and 8-10 kVA/kW models with single-phase input/single-phase output and 8-10 kVA/kW with three-phase input/single-phase output, with double conversion online technology (VFI): the load is always powered by the inverter which supplies a filtered and stabilized sinusoidal voltage in form and frequency.

In addition, the input and output filters greatly increase the immunity of the load against network disturbances and lightning. Up to three UPS can be paralleled for redundancy (2 + 1) and they can continue to operate in parallel even in the event of a break in the connection cable (Closed Loop).

To increase the autonomy of the UPS it is possible to connect optional expansion battery boxes. The range also includes ER (Extended Runtime) versions fitted with a 6A enhanced battery charger for applications where long operating times and reduced charging times are required.





Advanced technology for exceptional performance and maximum reliability

The technology used by Riello UPS to manufacture the Sentinel Tower guarantees the best performance: thanks to the three-level inverter you get 95% efficiency (Economy Mode enhances this up to 98%), while the unity output power factor further improves the efficiency of the system and devices while reducing losses on the supply network. Moreover, there is total microprocessor and DSP control, the static and manual bypass ensure power transfer without any interruption, and the high-performing components are designed to work even at high temperatures, guaranteeing great reliability.

Selection of the operating mode

The operating mode can be changed either via software or manually from the touchscreen display panel:

- Online: up to 95% operational efficiency
- Economy Mode: to power low-sensitive loads from the network, an efficiency of 98% can be achieved by selecting the Line Interactive technology (VI)
- Smart Active: the UPS automatically decides the optimum operating mode (VI or VFI) based on the quality of the network that powers it
- Emergency: the UPS can be set to work only in the event of a power failure
- Operation with frequency converter (at 50 or 60 Hz).

*"With the new Sentinel Tower we have added another important piece to our product range, offering the market something unique in its kind" - says **Massimo Zampieri, Product Manager of Riello UPS** - "thanks to the use of innovative technologies and components, we have succeeded in developing a solution entirely Made in Italy that is capable of protecting mission critical systems in the 5-10 kVA/kW power range, guaranteeing high performance, maximum reliability and energy savings "- concludes **Zampieri**.*

All Riello UPS Sentinel Tower models are equipped with wheels to facilitate ease of movement. Other high-level features include a new custom LCD display, RS232 and USB interfaces compatible with PowerShield³ communications software, ESD input, and slots for interfacing with other optional network cards.

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, sixteen 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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