



UPS TO PROTECT PELLET STOVES



Reliable power for a sustainable world



An introduction to Riello UPS America

RPS America Inc. is a member of the Riello Elettronica Group, the fifth largest manufacturer of Uninterruptible Power Supplies (UPS) in the world. With over 35 years experience in the power conversion, the Riello Elettronica Group delivers, through its main brand Riello UPS, innovative energy-efficient, scalable and cost-effective power solutions to guarantee quality energy for Data Centers, Electromedical and Healthcare applications, Lights Emergency, Industrial Facilities, Telecommunication and Offices (SoHo).

www.rielloupsamerica.com



Is your home equipped with a pellet stove? We explain **why is important to have a UPS.**

While design and functionality can influence the decision over which pellet stove to purchase, economics remains the primary factor. Any increase in energy use will push consumers to alternatives that deliver lower operating costs.

Another important consideration is that when you analyse the entire production cycle, pellets are decidedly more efficient than other traditional energy sources.





The most recent models of wood pellet stoves are characterized by strong electronic components. Like all devices of this type, they are **susceptible to blackouts and disturbances to the electrical network**, which in addition to interrupting normal operations, could cause serious damage to the components.

In the event of a power failure, the electronics of the pellet stove are deactivated, interrupting its functions; in this condition, the stove is no longer able to expel the fumes in a forced manner where they are pushed outside by mechanical fans.

In addition, any lack of mains electricity with thermo-powered stoves would cause the interruption of the normal circulation of water, bringing it to a boil.

The device will also no longer be able to completely burn the pellets inside the crucible, clogging it and forcing it to be cleaned before the stove starts up again. Statistics show that the highest percentage of power outages in our country are under 5 minutes. therefore, considering that the operational cycle of a pellet stove is around 15 minutes, a short blackout could require a delay of at least 30 minutes for thorough cleaning and time it takes to restart the device.

The adoption of a static UPS becomes an essential necessity in order to not only ensure correct operation but to preserve the integrity of your device for several years.



But how do you choose the correct model? Here are some handy hints:

- **Using the technical figures** from the device's datasheet or manual, calculate the power of the stove and any separate ventilation system. This will help to determine the power rating of the UPS.
- Choose a **model that delivers a sinusoidal waveform** when running on battery. This is crucial for compatibility with the electronics in the stove.

In order to preserve the performance of the batteries contained within the UPS, it is advisable during the summer period to keep the blocks connected to the electricity grid, or at least to have them recharged at least every two months to 100% of the recommended charge as indicated in the user manual. Our experience gained over several years leads us to recommend uninterruptible power supplies from **the Sentinel RT series (SDH RT)**. These **online models are available in a power range from 1-3 kVA/kW (low power models - complete range till 10 kVA) and deliver a sinusoidal output voltage**. This technology is capable of operating efficiency up to 98% (ECO Mode), which reduces energy consumption whilst also ensuring a high level of protection against any fluctuations present in the electrical network.



Sentinel RT [SDH RT]

The UPS is equipped with a dedicated hot swap battery pack that allows easy replacement of the batteries without having to shut the equipment down. In addition, the UPS carries out periodic tests to check for potential deterioration in the performance of the batteries.

Sentinel RT models are equipped with a large, rotating, backlit LCD display that provides information on the status of the UPS, the load and the condition of the batteries. The display rotating feature allows both tower and racks UPS installation for ease of use.



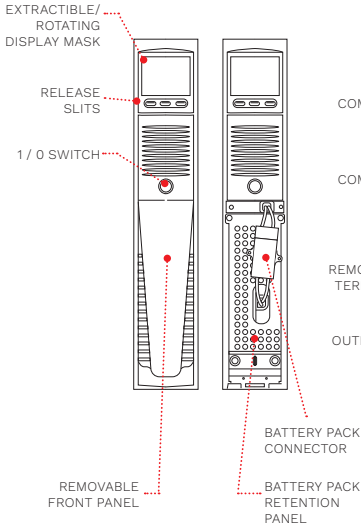
USB plug



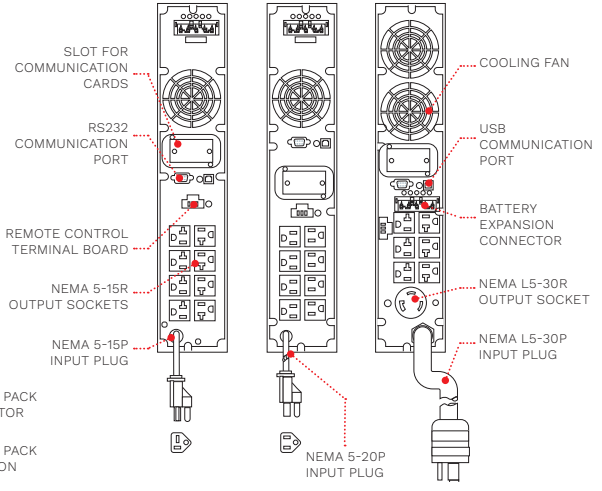
Plug & Play installation



FRONT VIEW



REAR VIEW



Riello UPS America is the North America headquarter of Riello UPS Italy, global player in the production of uninterruptible power supplies for years, it is able to ensure the highest quality products, distributors and sales support throughout the country, an ever-present and widespread assistance service that ensures original spare parts, even years after installation.



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