



UPS TO PROTECT
PELLET STOVES



Reliable power for a sustainable world



Innovation - the secret of an all-Italian success story

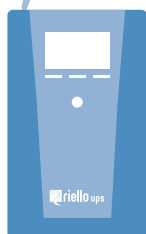
Riello UPS offers a diverse range of products organised into 23 ranges of uninterruptible power supplies (UPS) incorporating several state-of-the-art technological architectures. Thanks to its two research centres in Legnago (Verona) and Cormano (Milan), world class centres of excellence for the design, development and testing of uninterruptible power supplies, Riello UPS constantly innovates its product portfolio, keeping it at the pinnacle of performance, reliability and competition. Riello UPS designs and manufactures its UPS in Italy in order to maintain direct control over quality and reliability standards, as well as control over the entire manufacturing process, sales and after-sales service.

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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.





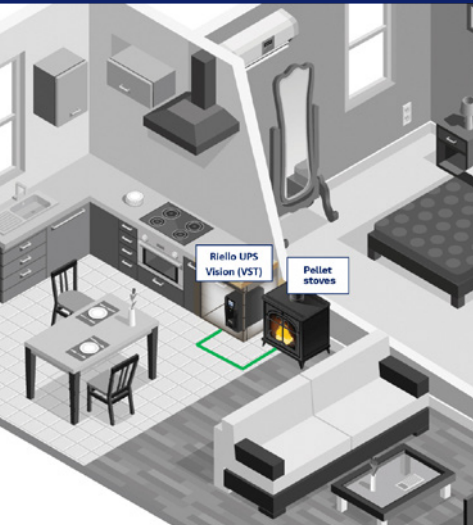
The most recent models of wood pellet stoves are characterized by strong electronic components. Like all devices of this type, they are **susceptible to blackouts and disturbances to the electrical network**, which in addition to interrupting normal operations, could cause serious damage to the components.

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 Vision series (VST)**. These **Line Interactive models are available in a power range from 800 VA to 2000 VA and deliver a sinusoidal output voltage**. This technology is capable of operating efficiency up to 98%, which reduces energy consumption whilst also ensuring a high level of protection against any fluctuations present in the electrical network.



Vision [VST]

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.

All Vision models are equipped with a large backlit LCD display that provides information on the status of the UPS, the load and the condition of the batteries.

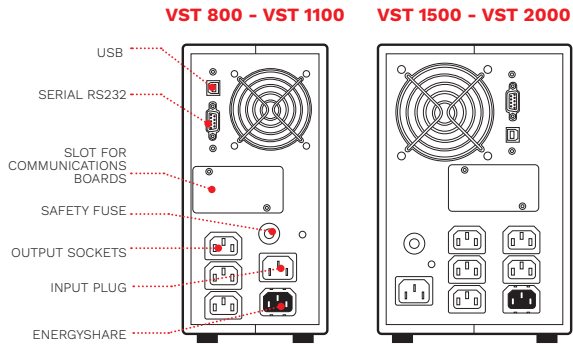
To help with choosing the correct model, please check the accompanying table that outlines the autonomy according to the applied load.



GS Nemko certified



Products	Load (W)						
	100	200	300	500	750	1000	1250
VST 800	61	29	16	12			
VST 1100	90	40	21	15			
VST 1500	163	82	46	30	13	8.5	
VST 2000	168	83	52	42	16	11	7



Italy's leader in the production of uninterruptible power supplies for years, Riello UPS 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.



RPS S.p.A. - Member of the Riello Elettronica Group

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