

UPS FOR **THE PROTECTION** OF GAS **BOILERS**

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Why protect a gas boiler?

Modern gas boilers are designed to operate automatically and ensure comfort, energy efficiency and safety. However, to function correctly, they depend on numerous factors, including the quality of the mains supply.

During the winter months, heating becomes a fundamental necessity and any unexpected shutdown can cause significant disruption.
Power cuts and mains interruptions, which are particularly frequent during severe weather events or in less urbanised areas, can compromise the boiler's normal operation. In addition to power cuts, the mains supply can be subject to overvoltages, undervoltages and disturbances that risk damaging sensitive electronic components such as the control board, the circulation pump and the flue fan.

The main causes of a boiler shutting down can be:

- lack of fuel;
- faults in the electrical system;
- incorrect system pressure;
- air in the radiators;
- problems with flue gas evacuation or draught.

Among these, **electrical faults and malfunctions are one of the most common causes of system shutdowns, making adequate protection of the power supply essential.**





The protection that makes all the difference

Protecting the boiler means maintaining its efficiency, increasing the system's reliability and reducing the risk of breakdowns when they are least needed.

According to statistics from service centres, **over 40 per cent of faults in gas boilers are attributable to problems with the electronic control board,** often caused by disturbances in the mains supply.
In many cases, the component needs to be replaced, resulting in repair costs and system downtime.

Installing an uninterruptible power supply (UPS) ensures the boiler remains powered during a power cut and protects it from voltage fluctuations that could compromise its proper operation.

WHEN CHOOSING THE MOST SUITABLE UPS, IT IS IMPORTANT TO CONSIDER:

- the **power consumption** of the boiler;
- **start-up currents** of internal loads;
- **UPS technology;**
- the quality of the output **waveform**;
- the presence of any **generator sets**.

Making the **right choice ensures continuity of service and greater protection for electronic components**, helping to reduce the risk of faults and unscheduled maintenance.





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How to choose the right UPS for your boiler

Ensuring uninterrupted operation and protection of the system requires a correctly sized UPS.

- **Check the power consumption**
  Check the boiler's rating plate or the technical manual to find out the required power. This information is essential for identifying the most suitable UPS model and to ensure it operates correctly during a power cut.

- **Opt for a pure sine wave UPS**
  Modern boilers use electronic components and motors that require a high-quality power supply.
  An online (VFI) pure sine wave UPS ensures a stable and continuous voltage, protecting the system from power cuts, voltage surges and mains disturbances. It is also the ideal solution when generator sets are in use.

THE BENEFITS OF A BOILER SPECIFIC UPS

- **Uninterrupted** heating even in the event of a power cut.
- **Protection** of electronic components against faults and voltage surges.
- **Reduced** risk of breakdowns and lower maintenance costs.
- Greater **reliability** and longevity of the system.
- **Comfort and peace of mind** all year round.

Protect your boiler and ensure uninterrupted service when it really matters.

VISION (VST)



- High level of protection
- Modern and compact design
- High availability
- Versatility
- LCD display
- Automatic voltage regulation (AVR)

1:1 800-2000 VA

VI TYPE
LINE INTERACTIVE

Tower

VISION DUAL (VSD)



- Automatic Voltage Regulation (AVR)
- High protection
- High efficiency
- High availability
- Versatility
- Advanced communication

1:1 1100-3000 VA

VI TYPE
LINE INTERACTIVE

ToweRack

SENTINEL PRO2 (SP2)

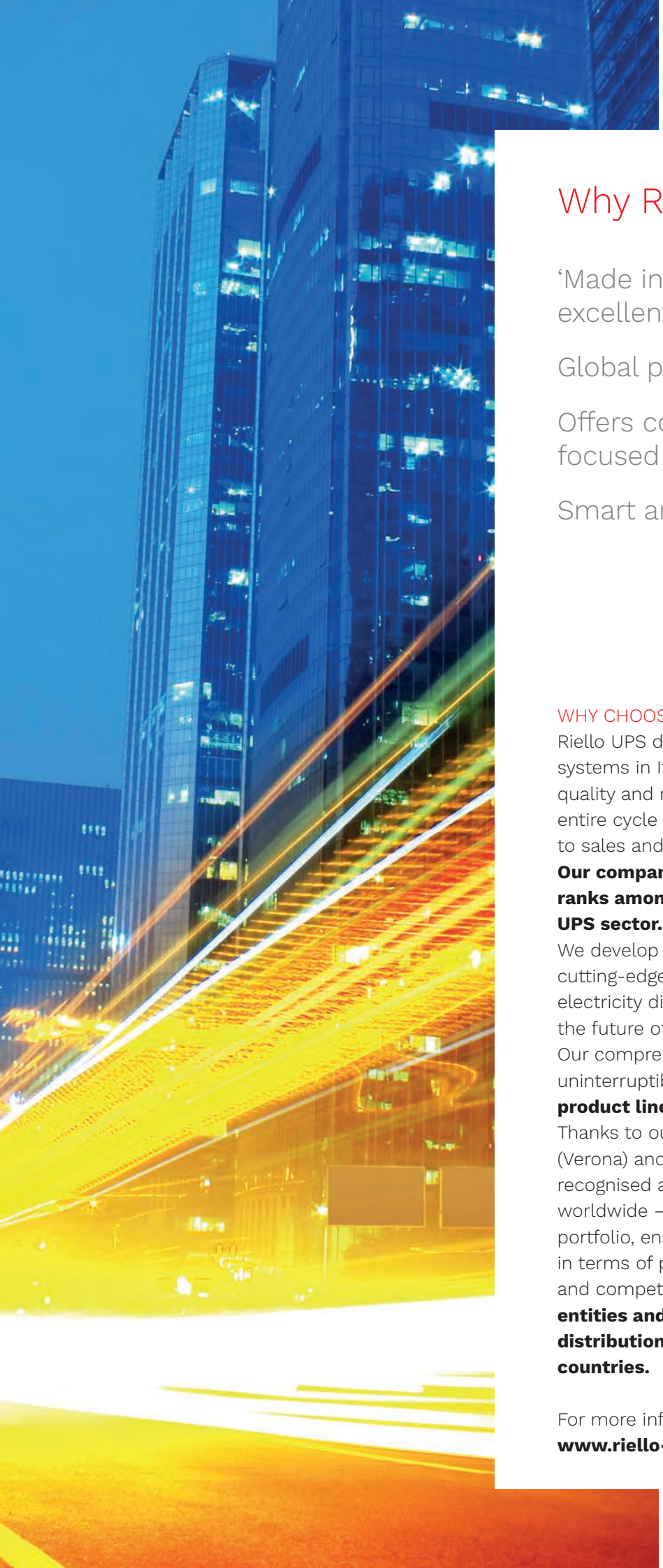


- Power factor 1
- Operational flexibility
- Emergency function
- Battery optimisation
- Extendable runtime
- Low noise level
- Configurable via PC

1:1 700-3000 VA

VFI TYPE
ONLINE

Tower



Why Riello UPS?

‘Made in Italy’ technology for excellent results

Global player

Offers comprehensive, customer-focused services

Smart and sustainable energy

WHY CHOOSE RIELLO UPS?

Riello UPS designs and manufactures its UPS systems in Italy, ensuring direct control over quality and reliability by closely monitoring the entire cycle from design and production through to sales and after-sales support.

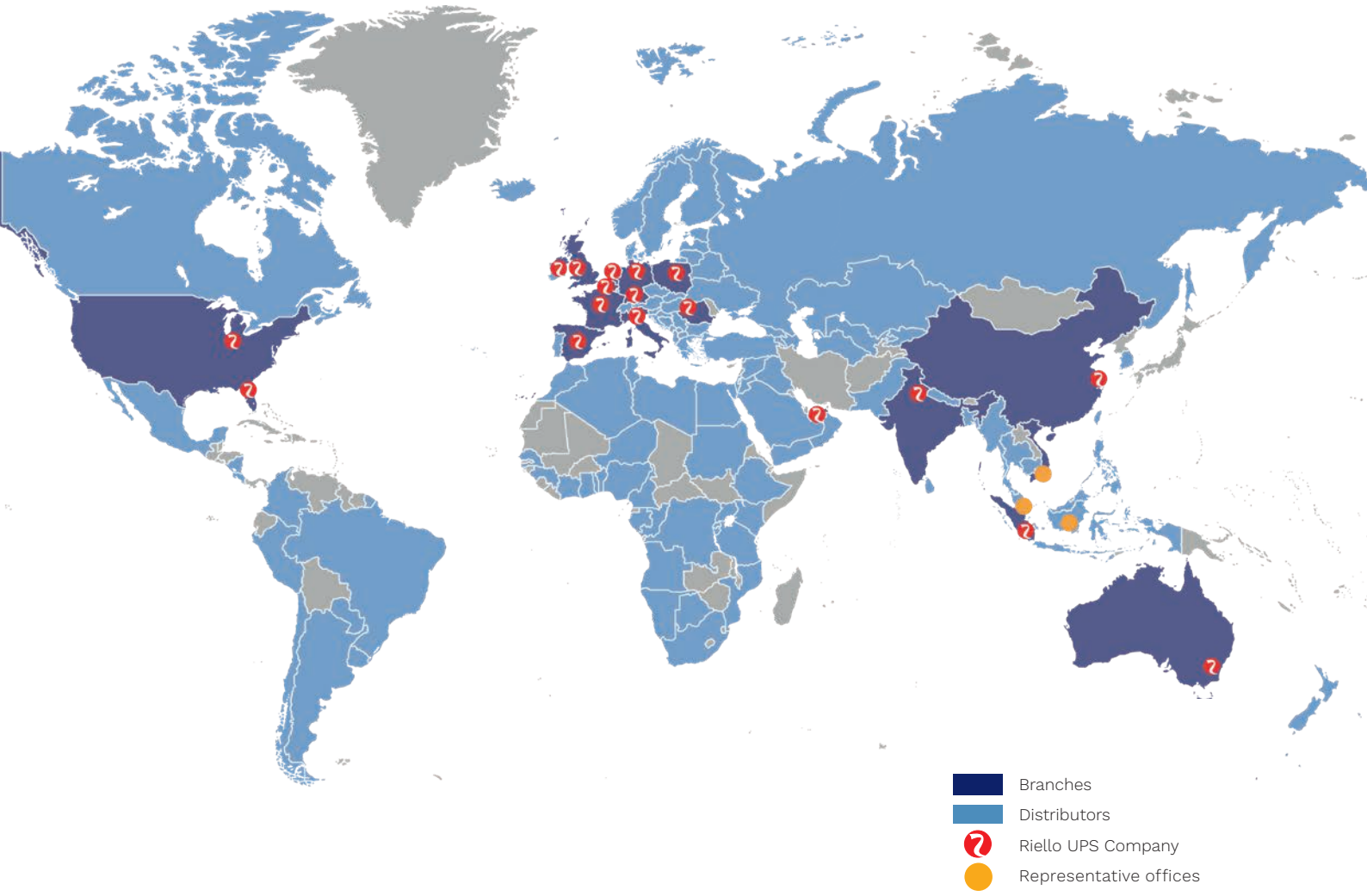
Our company is a market leader in Italy and ranks among the world’s top players in the UPS sector.

We develop solutions featuring innovative, cutting-edge technologies, ready for smart electricity distribution networks, which represent the future of energy.

Our comprehensive, award-winning range of uninterruptible power supplies includes **24 product lines suited to every situation.**

Thanks to our two research centres in Legnago (Verona) and Cormano (Milan) – which are recognised as centres of excellence in Italy and worldwide – we continually innovate our product portfolio, ensuring it remains at the forefront in terms of performance, energy efficiency and competitiveness. **Riello UPS has 17 legal entities and subsidiaries worldwide, as well as distribution and service networks in over 90 countries.**

For more information:
www.riello-ups.com


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