

## Riello UPS & Riello Elettronica



### About Riello UPS

Established in 1986, Riello Elettronica is the parent company of a group of businesses operating within the Energy, and Automation and Security sectors. The company started manufacturing switching power supplies for information technology applications, before moving into the manufacture of Uninterruptible Power Supplies (UPS). In 1995 Riello Elettronica became a holding company with operations within civil and industrial electronics, plant engineering and information technology sectors, security and intelligent home systems, and its established UPS manufacturing business. Also part of this strategic development was the restructuring of its energy-related activities under a new organisation – Riello UPS.

### SUSTAINABLE ENERGY FOR OUR FUTURE

With a concern for the environment, Riello UPS has taken an active role in developing a culture of sustainable development and reduced energy consumption. It has established a number of environmentally friendly projects and made substantial R&D investments into new technologies. These are targeted at the generation of 'clean energy' products and the development of even more efficient UPS in the future. This is a social commitment, which will benefit the present and have a positive impact on the future; the Riello UPS Environmental Management System is accredited to ISO14001 as testament to the Riello commitment to the environment.

Riello UPS has a company-wide initiative to become the most environmentally friendly power protection company in Europe. As a company, Riello UPS is a major contributor to the European Commission – Code of Conduct on Energy Efficiency and Quality of AC Uninterruptible Power Supplies - and the first European manufacturer to rate its products for ECO Energy Level efficiency. The European Commission Code of Conduct is a document signed by the major UPS manufacturers in Europe which outlines the efficiency levels to reach for specific size bands from 10-800kVA, from 25% to 100% loading. For a 200kVA UPS at full load the benchmark is 93% in full on-line mode.



# Now Energy beats faster



# UPS range summary



**iDialog**

**Vision**

**Sentinel Pro**

**Sentinel Dual  
(Low Power)**

**Sentinel Dual**

	<b>iDialog</b>	<b>Vision</b>	<b>Sentinel Pro</b>	<b>Sentinel Dual (Low Power)</b>	<b>Sentinel Dual</b>
Power rating	<b>400VA to 1600VA</b>	<b>800VA to 3000VA</b>	<b>700VA to 3000VA</b>	<b>1000VA to 3000VA</b>	<b>4KVA to 10KVA</b>
Topology	<b>Line Interactive</b>	<b>Line Interactive</b>	<b>On Line Double Conversion</b>	<b>On Line Double Conversion</b>	<b>On Line Double Conversion</b>
Input voltage Nominal	<b>230V Single Phase</b>	<b>230V Single Phase</b>	<b>230V Single Phase</b>	<b>230V Single Phase</b>	<b>230V Single Phase</b>
Output voltage Nominal	<b>230V Single Phase</b>	<b>230V Single Phase</b>	<b>230V Single Phase</b>	<b>230V Single Phase</b>	<b>230V Single Phase</b>
Inverter output transformer	-	-	-	-	-
Automatic bypass	-	-	●	●	●
Maintenance internal bypass	-	-	-	-	-
ECO mode operation	-	-	●	●	●
SMART ACTIVE operation	-	-	●	●	●
STANDY BY-OFF	-	-	●	●	●
Frequency converter	-	-	●	●	●
Multimodule configuration	-	-	-	-	○
Standard 19" Rack Mounting	-	○	-	●	●
Base monitoring software	<b>Free Download</b>	<b>Free Download</b>	<b>Free Download</b>	<b>Free Download</b>	<b>Free Download</b>
Ethernet port	-	○	○	○	○
RS232 port	○	●	●	●	●
USB port	●	●	●	●	●
Dry contacts	-	●	●	●	●
Card slot	-	1	1	1	1

● Standard    ○ Optional    ○ Selected models



## Services and consultancy



Pre-sales consultancy



Technical support and services

**TEC** is the RIELLO UPS pre-sales advisory service.

Our TEC (Technical Energy Consultant) experts have been working in the power sector for years, and come from backgrounds with technical experience in industry and power plants.

### CONSULTANCY ON STANDARDS

TEC personnel can provide advice on the relevant standards affecting:

- RIELLO UPS product ranges
- Batteries
- Installation
- Applications - such as emergency lighting, security and electro-medical

## Riello UPS and Environment



### ECO LINE

Riello UPS exceeds the specifications of the European Code of Conduct (on Energy Efficiency and Quality of Uninterruptible Power Supplies) and has also introduced energy savings products below 3kVA – known as the 'ECO LINE'. Again the focus is on energy efficiency and savings – for instance by ensuring that power is not consumed by the UPS when it is connected to the mains power supply, with no load or output voltage.

### ECO ENERGY LEVELS

Riello UPS powers some of the most critical data centres in use today. Within such environments, energy management is critical. Running costs must be minimised without compromising resilience and the capabilities to withstand a mains power supply interruption and disruption of service. Efficiency levels must be at the highest possible levels to reduce the stress on critical power supplies and minimise the effect on local ambients. The ECO Energy Level ratings identify how Riello UPS products comply with the European Commission Code of Conduct. There are six levels, with level 6 being the highest that can be achieved by a UPS in full on-line mode as defined by VFI-SS-111. 'Smart Mode' is an intelligent economy mode at which even higher levels of efficiency can be achieved. The Riello UPS ECO Energy Levels rating system demonstrates the Riello commitment to the environment and promotes an open-way for users to identify potential cost-savings from reduced operational energy usage, lower heat outputs and carbon-footprints.

Riello UPS is the first UPS manufacture to differentiate its products using the ECO Energy Levels guide. The rating system has been applied from 3kVA (below the 10kVA threshold limit applied by the European Commission) because Riello UPS is committed to the environmental impact of its entire product range.

Energy Level	Comparison between UPS efficiency with CoC	"Smart Mode" availability
ECO 6	Higher	Yes
ECO 5	Higher	-
ECO 4	Matches	Yes
ECO 3	Matches	-
ECO 2	Lower	Yes
ECO 1	Lower	-