

Riello UPS and 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, at 100% to 25% loading. For a 200kVA UPS at full load the benchmark is 93% in full online mode.

In addition to making its products achieve the highest possible operating efficiencies, Riello UPS has also focused its research and development efforts on other aspects that impact the environment.

- *Adaptive battery management to lengthen the period between battery replacement and disposal programmes and reduce the wear on other consumables such as fans and capacitors.*
- *Low Total Harmonic Distortion on the input side (THDi) of (3%) to reduce the impact on upstream equipment and a high input power factor (0.99).*
- *Adaptive "Smart Mode" operation in which the UPS selects a mode of operation that matches the electrical characteristics of the mains power supply to the power protection performance required by the load.*

ECO ENERGY LEVELS

Riello UPS ECO Energy Levels Riello UPS powers some of the most critical data centres and servers in use today. Within such environments, energy management is critical. Running costs must be minimised without compromising resilience, which is the capability to suite at modified conditions, keeping the full availability of the services and continuity. Efficiency levels must be at the highest possible levels to reduce the stress on critical power supplies and minimise the effect on local ambient.

The Riello UPS ECO Energy Levels within this product guide help to identify how Riello products comply with the latest energy efficient benchmarks in power protection. The ECO Energy Level system has six levels and the Code of Conduct is taken for a UPS operating in full on-line mode (VFI-SS-111). Other than this, Smart Active mode helps on arising the efficiency of the system, makes an higher Eco Energy Level rate.

Riello UPS ECO Energy Levels is more than a concept. As well as playing a part in the wider corporate initiative the system demonstrates how Riello UPS can achieve capital payment periods that are up to half the industry standard, and with a reduced "carbon-footprint" – both benefits of the highest concern in an environmentally and energy challenged world.

Even if CoC takes into account ups sized higher than 10 kVA, Riello UPS decided to rates its own single phase product over than 3,3 kVA with limit of 10 kVA CoC which are more restrictive.