

SuperCaps UPS

SOLUTIONS WITH SUPERCAPS

- 1:1** 2-10 kVA
- 3:3** 10-125 kVA



ONLINE



HIGHLIGHTS

CLEAN ENERGY

An eco-friendly, battery-free uninterruptible power system.

HIGH EFFICIENCY INNOVATIVE TECHNOLOGY

Modular expansion options for more power and runtime.

LONG OPERATING LIFE

5 to 10 times standard lead batteries

HIGH NUMBER OF CYCLES

Million vs. ca 300 of lead batteries

LOW MAINTENANCE COSTS

Easy to install and maintain.

HIGH WORKING TEMPERATURE

No need of cooling or heating systems

LOW FOOTPRINT & WEIGHT

SuperCaps module



SuperCaps UPS are a type of uninterruptible power supply developed by Riello UPS, which use super capacitors to accumulate energy instead of conventional batteries. Autonomy in the range of seconds (1 to 60 sec). The innovative Riello SuperCaps UPS are designed to provide complete power supply protection for sensitive and mission-critical loads, protecting them from mains disturbances and providing sufficient power to compensate for interruptions in mains supply.

Traditionally UPS rely on batteries for accumulating energy, but at least 87% of power supply interruptions last for less than a second⁽¹⁾. SuperCaps UPS provide greater energy efficiency, lower costs and reduced footprints – ideal for installations where floor space is at a premium.

At the heart of the Riello SuperCaps UPS is a sophisticated control system that manages the charge-discharge cycle of the super-capacitors and optimises their lifecycle, which may exceed a million cycles.

Their back-up time is dependent on the load but is sufficient to supply it until the mains power is restored or until reserve power from a generator starts automatically.

Most UPS are installed as standard with batteries lasting 5-10 minutes to protect the load against generator start up failure. For modern data centres, electro-medical and industrial applications, an efficient generator set supported by a UPS with a relatively brief autonomy offers the most efficient and effective power continuity solution, with conventional batteries providing sufficient runtime to cover most power interruptions.

However, SuperCaps UPS do not have batteries and therefore provide long term savings in terms of battery installation, monitoring, maintenance, replacement and recycling costs. In addition, when compared to the 5-7 year lifecycle of standard batteries, SuperCaps UPS have a theoretically infinite lifecycle. These cost savings, along with the reduced footprint make SuperCaps UPS the ideal solution for critical installations that are particularly sensitive to short power supply interruptions.