7 riello ups

SuperCaps UPS

SOLUTIONS WITH SUPERCAPS







DATACENTRE

E-MEDICAL

INDUSTRY







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 ofuninterruptible 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. SuperCaps UPS are a type of uninterruptible power supply developed by Riello UPS, which use super capacitors to accumulate energy instead of conventional batteries.

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 supercapacitors 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.



SENTINEL**PROSC**

MODELS		SEP 700 SC	SEP 1000 SC	SEP 1500 SC	SEP 3000 SC					
INPUT	Nominal voltage	220-230-240 Vac 1ph								
	Nominal frequency	50/60 Hz								
	Power factor	> 0,99								
	Current distortion	≤7%								
OUTPUT	Nominal power (VA)	700	1000	1500	3000					
	Power (W)	560	800	1200	2400					
	Nominal voltage	220-230-240 Vac 1ph								
BACKUP	Autonomy	16 s	11 s	7 s	11 s					
	Recharge time (min)	15-30 min								
	Expandability	no	yes	no	yes					
DATA	Net weight (kg)	8	8,1	9,2	17,6					
	Dimensions (WxDxH) (mm)	422 x 2	35 x 158		446 x 333 x 190					

SENTINEL**POWER**SC

MODELS		SPW 6000 SC	SPT 8000 SC	SPT 10000 SC				
INPUT	Nominal voltage	220-230-240 Vac 1ph 220-230-240 Vac 1ph or 380-400-415 Vac 3ph						
	Nominal frequency		50/60 Hz					
	Power factor	> 0,99						
	Current distortion	≤5%						
OUTPUT	Nominal power (VA)	6000	8000	10000				
	Power (W)	4800	6400	8000				
	Nominal voltage		220-230-240 Vac 1ph					
BACKUP	Autonomy	11 s	9 s	7 s				
	Recharge time	15-30 min						
DATA	Net weight (kg)	61	62	64				
	Dimensions (WxDxH) (mm)	·	785 x 615 x 282					

MULTI**SENTRY**SC

MODELS		MST 10 SC	MST 12 SC	MST 15 SC	MST 20 SC	MST 30 SC	MST 40 SC	MST 60 SC	MST 80 SC	MST 100 SC	MST 120 SC
INPUT	Nominal voltage	220-230-240 Vac 1ph / 380-400-415 Vac 3ph + N									
	Nominal frequency	50/60 Hz									
	Power factor	0,99									
	Current distortion	≤ 3%									
OUTPUT	Nominal power (VA)	10	12	15	20	30	40	60	80	100	120
	Power (W)	9	10.8	13.5	18	27	36	54	72	90	108
	Nominal voltage	220-230-240 Vac 1ph / 380-400-415 Vac 3ph + N									
BACKUP	Autonomy	21 s	17 s	14 s	10 s	14 s	9 s	7 s	15 s	11 s	20 s
	Recharge time	6-8 min									
DATA	Net weight (kg)	123	128	133	138	163	171	190*	200*	220*	380*
	Dimensions (WxDxH) (mm)	850 x 1320 x 440				850 x 1600 x 500			855 x 1900 x 750		

^{*} Supercaps are not included in the UPS cabinet

MASTER**HP**SC

 $contact\ our\ TEC\ service\ for\ configurations.$



