









SuperCaps

SOLUTIONS WITH SUPERCAPS







1:1 1-10 kVA



3:3 10-400 kVA

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. It delivers autonomy in the range of seconds (1 to 60 sec). The innovative Riello SuperCaps UPS is 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.

¹ Electric Power Research Institute study.

SENTINELPROSC

MODELS		SEP 1000 SC	SEP 3000 SC						
INPUT	Rated voltage [V]	220 / 230 /240 1ph							
	Rated frequency [Hz]	50 / 60							
	Power factor	>0.99							
	Current distortion	≤7%							
OUTPUT	Nominal power [VA]	1000	3000						
	Power [W]	900	2700						
	Rated voltage [V]	220 / 230 /240 1ph							
BACKUP	Autonomy [sec.]	11	11						
	Recharge time [min.]	15-30							
DATA	Net weight [kg]	8.1	17.6						
	Dimensions (WxDxH) [mm]	158x422x235	190x446x333						

SENTINELTOWERSC

MODELS		STW 6000 SC	STW 10000 SC					
INPUT	Rated voltage [V]	220 / 230 /240 1ph	220 / 230 /240 1ph or 380 / 400 / 415 3ph					
	Rated frequency [Hz]	50 / 60						
	Power factor	>0.99						
	Current distortion	≤5%						
ОИТРИТ	Nominal power [VA]	6000	10000					
	Power [W]	6000	10000					
	Rated voltage [V]	220 / 230 / 240 1ph						
BACKUP	Autonomy [sec.]	10	7					
	Recharge time [min.]	15-30						
DATA	Net weight [kg]	40	46					
	Dimensions (WxDxH) [mm]	250x500x698						

MULTISENTRYSC

		MST	MST	MST	MST	MST	MST	MST	MST	MST	MST
MODELS		10 SC	12 SC	15 SC	20 SC	30 SC	40 SC	60 SC	80 SC	100 SC	125 SC
INPUT	Rated voltage [V]		220 / 230 /240 1ph - 380 / 400 / 415 3ph + N								
	Rated frequency [Hz]		50 / 60								
	Power factor		0.99								
	Current distortion	≤3%									
ОИТРИТ	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
	Rated voltage [V]	220 / 230 /240 1ph - 380 / 400 / 415 3ph + N									
BACKUP	Autonomy [sec.]	21	17	14	10	14	9	7	15	11	20
	Recharge time [min.]	6-8									
DATA	Net weight [kg]	123	128	133	138	163	171	190¹	200¹	220¹	380¹
	Dimensions (WxDxH) [mm]	850x1320x440								855x1900 x750 + 960x1900	

MASTERHPSC: all models of the MASTER HP series

NXE**SC**: all models of the NXE series

Contact our TEC service for high power or different configurations.





