



1-3:1 10-20 kVA/kW3:3 10-120 kVA/kW



HIGHLIGHTS

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F

Energy Share

Service

SmartGrid readv

Supercaps

USB plug

- Extensive range of solutions
- Compactness
- Efficiency up to 96.6%
- High power availability
- Smart battery management
- Maximum reliability
- Flexibility of use
- Graphic touch screen display

The rapid evolution of IT technologies, additional focus on environmental matters and complexity of critical applications lead to a need for more flexible, efficient, secure and interconnected power protection solutions.

The Sentryum 10-120 kVA/kW offers the best combination of power availability, energy efficiency and global performance ensuring installation and running cost savings. It is the very latest Riello UPS development resulting in a thirdgeneration transformer-free UPS, originally introduced into the market over twenty three years ago. This ultimate solution is rated at output power factor 1 and defined as ON LINE double conversion technology in accordance with VFI-SS-111 classification (as set out in standard IEC EN 62040-3). The Sentryum series is a transformer-free UPS available in 10-15-20 kVA/kW models with three-phase/single-phase input and single-phase output and 10-15-20-30-40-60-80-100-120 kVA/kW models with three-phase input and output.

Sentryum is designed and built using state-of-the-art technology and components. It applies the advanced technologies such as a DSP (Digital Signal Processor), dual core microprocessors, three-level inverter circuits and resonant controls to provide maximum protection to critical loads with no impact on downstream systems, all whilst maintaining optimised energy savings. With a unique control system, it makes it possible to reduce the inverter output harmonic voltage distortion (<1% at resistive linear load and <1.5% at non-linear load) and provide a rapid response to all load variations, ensuring an outstanding sinewave form during all conditions.

Furthermore, Riello UPS' technological advances in digital control and power components contribute to minimise the impact on the grid.

Sentryum provides the solution to installation problems in systems where the mains electricity supply has limited power available, where the UPS is supported by a generator, or where there are compatibility problems with loads that generate harmonic currents.

EXTENSIVE RANGE OF SOLUTIONS

Sentryum has been conceived to optimise the specific requirements by enhancing the installation flexibility. Riello UPS offers Sentryum in four different frame solutions to satisfy any critical power demand and application.

Three of the frame types are available for the Sentryum 10-60 kVA/kW power ratings:

Compact (CPT): this cabinet frame is specifically devised to offer a compact but efficient solution for tailored applications; thanks to the ultimate technologies applied, this solution offers unmatched power (up to 20 kVA @ pf 1) and autonomy (12 minutes of backup time at typical load) in an extremely reduced space.

Active (ACT): this solution offers an optimised degree of flexibility to meet different power requirements and battery autonomies. The solution offered is extremely compact but exceptionally powerful, with the possibility to deliver up to 60 kVA (@ pf 1). The ACT model allows to build one or two levels of internal battery backup time (NB this does not apply to the 60 kVA/kW model, which does not allow the installation of internal batteries).

Xtend (XTD): this version is the most flexible solution available to meet various installation requirements and power demands. In an extremely small footprint, it is possible to build up to three-levels of battery backup time. In addition, the mechanical design makes it possible to install an isolation transformer or easily change the degree of protection from IP20 to IP21 or even IP31. The installation of a dedicated optional seismic kit allows the XTD model to become compliant to ICC-ES AC 156 (2020) too.

The fourth frame is unique for the Sentryum 80-120 kVA/kW power ratings:



Rear view Sentryum Compact.

S3T 80, S3T 100, S3T 120. The layout of these models doesn't allow for the installation of internal batteries and transformers. However, as per the XTD model, the mechanical design does make it possible to easily change the degree of protection from IP20 to IP21 or even IP31. In addition, the S3T 80-120 models can become compliant to ICC-ES AC 156 (2020) simply by adding the optional seismic kit.

COMPACTNESS

Modern guidelines and sustainable best practices direct us to conceive and design UPS with a particular focus on the entire product life cycle, applying ultimate but resilient technologies, recyclable materials and miniaturisation of assemblies whilst ensuring the systems' global reliability, which is pivotal for any UPS. The internal card layout has been optimised to reduce the number of components, interconnections and space required, whilst at the same time increasing reliability and Mean Time Between Failures (MTBF), which helps to minimise operational expenditure such as service operations and maintenance costs. The result is an outstanding range of four different solutions providing powerful but compact designs as follows:

Sentryum 10-60 kVA/kW power ratings

- **Compact**: less than 0.25 m² footprint and only 0.17 m³ of volume.
- Active: less than 0.35 m² footprint and only 0.33 m³ of volume.
- **Xtend**: less than 0.4 m² footprint and less than 0.5 m³ of volume.
- Sentryum 80-120 kVA/kW power ratings
- **S3T 80, S3T 100, S3T 120:** less than 0.42 m² footprint and less than 0.67 m³ of volume.



MECHANICAL CHARACTERISTICS	SENTRYUM COMPACT-CPT (10-20)	SENTRYUM ACTIVE-ACT (10-60)	SENTRYUM XTEND-XTD (10-60)	SENTRYUM S3T 80-120 (80-120)
Cabinet layout description	Free standing type with wheels and terminals/ switches on rear	Free standing type with wheels and terminals/ switches on front	Free standing type with wheels and terminals/ switches on front	Free standing type with wheels and terminals/ switches on front
Range [kVA/kW]	10-15-20 (1 Ph) 10-15-20 (3 Ph)	10-15-20 (1 Ph) 10-15-20-30-40-60 (3 Ph)	10-15-20 (1 Ph) 10-15-20-30-40-60 (3 Ph)	80-100-120 (3 Ph)
Battery	Space for: 40 blocks	Space for: 2x40 blocks (No internal battery for 60kVA)	Space for: 3x40 blocks (3x40x9Ah for 60kVA model, not 7Ah)	No internal battery
Ventilation	Forced, front to rear	Forced, front to rear	Forced, front to rear (Air filter door as option)	Forced, front to rear (Air filter door as option)
Cabinet IP rating	IP20 finger proof (either with cabinet doors open or closed)	IP20 finger proof (either with cabinet doors open or closed)	IP20 finger proof (either with cabinet doors open or closed) IP21/31 as option	IP20 finger proof (either with cabinet doors open or closed) IP21/31 as option
Cable input	Bottom (rear)	Bottom (front)	Bottom (front)	Bottom (front)

HIGH EFFICIENCY

Sentryum is a true ON LINE double conversion UPS system providing the very highest levels of power availability, flexibility and unrivalled energy efficiency with superior performance for any small Data Center and mission critical applications.

With a full power rating (kVA=kW unity pf), the Sentryum provides the maximum available power without any de-rating. Thanks to the three-level IGBT inverter topology (constructed using modules rather than discrete components) and innovative digital controls, the Sentryum provides up to 96.6% overall efficiency, whilst maintaining a reduced number of components, connections and ribbon cables, which increases the overall system reliability thanks to a higher MTBF. Riello UPS' advanced average current mode digital PFC control and state-of-theart three-level NPC inverters work at high frequency (18 kHz for 10-60 kVA/kW, 16kHz for 80-120 kVA/kW), which contributes to minimising the UPS's impact on the grid and helps to reduce the overall operational costs and energy bills.

Sentryum applies a zero impact onto its power source, whether this is from the mains power supply or a generator, this results in:

- Very low input current distortion <3%;
- Near unity input power factor 0.99;
- Power walk-in function that ensures progressive rectifier start up;
- Start up delay function, to sequentially restart the rectifiers once the mains power supply is restored if there are

several UPS within the overall system;;
In addition, Sentryum provides a filtering and power factor correction function within the power network upstream of the UPS, thus eliminating harmonic components and reactive power generated by the power utilities.

HIGH POWER AVAILABILITY

Sentryum's fully rated design delivers full power (kVA=kW) regardless of the load power factor or operating temperature (full-rated power is available up to 40 °C). Furthermore, Sentryum's advanced digital control makes it possible to deliver up to 270% inverter current for 200 ms and 150% for 300 ms. This high overcurrent availability enables the system to deal with sudden peak loads (without static bypass intervention) and provide the short circuit current if required during operation on battery.

The innovative input stage design provides extremely high battery recharging current, whilst at the same time an energy efficient conversion process during battery operation to reduce the power wasted and to increase the autonomy time compared to legacy DC/AC converters.

SMART BATTERY MANAGEMENT

Proper battery care is critical to ensure the correct operation of the UPS during emergency conditions. The Riello UPS Smart Battery Management system consists of a series of features and capabilities to optimise battery management and obtain the best performance and operating life possible. Battery recharging: Sentryum is suitable for use with conventional hermetically sealed lead-acid (VRLA), AGM and GEL batteries, Open Vented and Nickel Cadmium batteries.

Sentryum is also compatible with alternative backup power sources such as Li-Ion batteries and Supercapacitors. Its superior battery charging current availability, i.e. up to 30 Amperes for the 40-120 kVA/kW power range, means that the Sentryum can be utilised within any extended battery autonomy application. Depending on the battery type, different charging methods are available:

- One-level voltage recharge, typically used for widely available VRLA AGM batteries.
- Two-level voltage recharge according to IU specification.
- Cyclical recharge system to reduce electrolyte consumption and lengthen the life of VRLA batteries.

The battery management system also incorporates:

- Recharge voltage compensation based on ambient temperature to prevent excessive battery charging or overheating.
- Battery tests to diagnose in advance any reduction in performance or problems with the batteries.
- Deep discharge protection: during extended low-load discharges, the end of discharge voltage is increased - as recommended by battery manufacturers
 to prevent damage or reduced battery performance.
- Ripple current: recharge ripple current

(residual AC component at low frequency) is one of the main causes of reduced reliability and battery life. Using a high frequency battery charger, Sentryum reduces this value to negligible levels, prolonging battery life and maintaining high performance over a long period of time.

• Wide voltage range: the rectifier is designed to operate within a wide input voltage range (up to -40% at half load), reducing the need for battery discharge and thus helping to extend battery life.

Sentryum allows a wide battery block range per string; the standard 20+20 battery blocks @ 12 V with neutral central point can be adjusted from 15+15 to 22+22 battery blocks (nominal power de-rating is automatically applied below 20+20 battery block configuration).

MAXIMUM RELIABILITY AND AVAILABILITY

Distributed parallel configuration of up to 8 units per redundant (N+1) or capacity parallel system grants exceptional expandability. The UPS continue to operate in parallel even if the connection cable is interrupted (Closed Loop). Advanced technology and use of high performance components allows Sentryum to provide exceptional performance and utmost reliability:

- The smallest overall footprint is only 0.35 m² for Sentryum 40 kVA/kW with two strings of 40 battery blocks;
- The input power stage (IGBT rectifier) ensures an input power factor close to 1 with extremely low current distortion, avoiding the need for bulky and expensive filters;
- The Sentryum's unity output power factor makes it suitable for any Data Center application ensuring full power availability without downgrading no matter the load power factor range (typically from 0.9 lagging to 0.9 leading);
- Extremely low output THDV under any circumstances provides a perfect sinewave and therefore a reliable power supply for the load preventing and disturbances from affecting the network users;
- More active power than a traditional UPS, guaranteeing a greater margin when sizing UPS for potential future load increases;
- More energy to face sudden load increase or clear output short circuits due to appliance failures downstream;
- Thanks to the principle of smart ventilation, Sentryum manages the fan speed and airflow in accordance with

sentryum

the room temperature and load level. This preserves the lifespan of the fans, whilst at the same time reduces noise levels and overall power consumption due to unnecessary UPS ventilation. Furthermore, the overall UPS high efficiency reduces any losses and the need for high levels of ventilation compared to older legacy UPS. This results in a decrease in the overall noise level at the nominal load and a reduction in the number of fans required, which significantly benefits the operating and maintenance costs.

Fan failure monitoring: each fan is monitored individually for the 60-120 kVA/kW power ratings as standard, while this feature is a factoryfitted option for the 10-40 kVA/kW power ratings (available for Xtend version only). In the event of a fan failure, an alarm will be raised on the UPS display and via remote monitoring device (if present); this immediately informs the user so that necessary actions can be taken to restore the system to correct operation..

FLEXIBILITY

With its flexible range of four solutions, configurations, performances, accessories and options, Sentryum is suitable for use in a wide range of applications:

- Suitable for powering capacitive loads, such as blade servers, without any reduction in active power from 0.9 lead to 0.9 lag;
- ON LINE, ECO, SMART ACTIVE and STANDBY OFF operating Modes compatible with central power supply systems (CPSS) applications;
- Frequency Converter Mode;
- Cold Start to switch on the UPS even when there is no mains power present;
- S3T 20 XTEND version: cabinet (440x840x1320 mm WxDxH) for optimised solutions when medium to long-term runtimes are required (up to one hour back up time for a 20 kVA/kW at typical load rate);
- Parallel configuration up to 8 units for three-phase version;
- Optional temperature sensor for external battery cabinets, to assist recharge voltage compensation;



Sentryum S3T 120 with open door.

- High power battery chargers to optimise charge time in the event of long runtimes;
- Dual input mains power supply (not applicable on Compact, optional for Active and S3T 80-120, standard on Xtend version);
- Isolation transformers for modifying the neutral earthing (separate power sources), or for galvanic isolation between the input and output (optional inside Xtend, external for Compact, Active or S3T 80-120 versions);
- Mechanical fitting for a higher rating of IP protection either IP21 or IP31 on Xtend and S3T 80-120 versions;
- Air filter door on Xtend and S3T 80-120 versions to protect UPS placed in dusty environment;
- Compatibility with alternative backup energy sources rather than lead batteries (NiCd or Li-ion batteries or Supercapacitors);
- Different sized battery cabinets and capacities, for extended runtimes.

ADVANCED COMMUNICATIONS

Sentryum is equipped with a coloured graphic touch screen display providing UPS information, measurements, operating states and alarms in different languages. The default screen displays the UPS status, graphical indication of the energy path through the UPS and the operational condition of the various assemblies (rectifier, batteries, inverter, bypass) within the UPS.

Furthermore, the user interface includes a UPS status led bar which delivers immediate and clear information regarding the overall status of the UPS by changing the colour (light blue, dark blue, orange and red) according with the operating mode and condition.

- Advanced multi-platform communications for all operating systems and network environments: PowerShield³ monitoring and shutdown software included for Windows operating systems 11, 10, 8, Hyper-V, Server 2022, 2019, 2016 and previous versions, Windows Server Virtualization Hyper-V, macOS, Linux, Citrix XenServer and other Unix operating systems;
- Compatible with VMware infrastructures to perform graceful shutdown of hosts and clusters; to perform Vmotion and prioritised shutdown of VM thanks to NetMan 208 Network card;
- Compatible with Nutanix and Syneto infrastructures to perform graceful shutdown of hosts; to perform prioritised shutdown of VM thanks to NetMan 208 Network card;
- Compatible with RielloConnect (remote monitoring service);
- RS232 port on RJ10 connector and USB ports;
- 2 slots for the installation of optional communications accessories such as network adaptors and volt free contacts etc;
- Embedded contact interface which includes 5 programmable inputs and 4 programmable outputs;
- R.E.P.O. Remote Emergency Power Off for switching off the UPS via a remote emergency button;
- Graphic display panel for remote connection.



Sentryum Xtend 60 with open door.





TERMINAL COVER PANEL



BYPASS INPUT SWITCH (SWBYP)

MAINS INPUT SWITCH (SWIN)



... PARALLEL CARD [OPTIONAL]





BATTERY CABINET



² According with battery cabinet fuse associated.

OPTIONS

SOFTWARE	PRODUCT ACCESSORIES
PowerShield ³	Battery temperature sensor
PowerNetGuard	ER battery charger
	Parallel Kit
ACCESSORIES	MULTICOM 392
NETMAN 208	UPS with internal isolation
MULTICOM 302	transformers (XTEND version)
MULTICOM 352	IP rating IP21/IP31
MULTICOM 384	(XTEND and S3T 80-120 versions)
MULTICOM 411	Dual Input Kit (ACT and S3T 80-120 versions)
MULTICOM 421	Front door air filter
MULTI I/O	(XTD and S3T 80-120 versions)
MULTIPANEL	Fan failure alarm for 10-40 kVA
MBB 100 A 2P	(XTD version)
MBB 125 A 4P	Seismic kit (XTD and S3T 80-120 versions)
MBB 400 A 4P	ENERGYMANAGER

Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]	220 / 2 230 / 220 / 2 fro 10 10	110% 15 15 1 + N	ase + N 50 / load ¹ 40 - 0.3 THDI ase + N 180-200) to 264 (a 50 or 60 (s ±5% (sel 20 20 1 up to N (selectable)	/ 60 41 - 72 39 ≤3% 380 / 2 adjustable 250-264 selectable) ectable) 30 min, 150% for 10 10 10 10) min 15 15 3 + N	d ¹ ase + N			
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Active power [kW] Power factor Number of phases Rated voltage [V] Rated frequency [Hz] Frequency stability on battery operation Voltage stability Dynamic stability Voltage distortion BATTERIES Type Recharging method OVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]	10	15 1 + N	20 1 up to N (selectable)	10 40 °C	15 3 + N				
Active power [kW] Power factor Number of phases Rated voltage [V] Rated frequency [Hz] Frequency stability on battery operation Voltage stability Dynamic stability Voltage distortion BATTERIES Type Recharging method OVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]	10	15 1 + N	20 1 up to N (selectable)	10 40 °C	15 3 + N				
Power factor Number of phases Rated voltage [V] Rated frequency [Hz] Frequency stability on battery operation Voltage stability Dynamic stability Voltage distortion BATTERIES Type Recharging method OVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]		1 + N	1 up to N (selectable)	40 °C	3 + N	20			
Number of phases Rated voltage [V] Rated frequency [Hz] Frequency stability on battery operation Voltage stability Dynamic stability Voltage distortion BATTERIES Type Recharging method OVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]	2201/230/2		v (selectable)						
Rated voltage [V] Rated frequency [Hz] Frequency stability on pattery operation Voltage stability Oynamic stability Voltage distortion BATTERIES Type Recharging method OVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDXH) [mm] Dimensions XTD (10-60) (WxDXH) [mm] Dimensions S3T 80-120 (WxDXH) [mm]	2201/230/2			3801/400/4					
Rated frequency [Hz] Frequency stability on battery operation Voltage stability Dynamic stability Voltage distortion BATTERIES Type Recharging method DVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) 4 Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]		240 single-phase + 1		380.7 400 / 2	11 T three wheels I				
Frequency stability on battery operation Voltage stability Dynamic stability Voltage distortion BATTERIES Type Recharging method DVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]			50 0	2201/230/240 single-phase + N (selectable) 3801/400/415 three-phase + N (selectable)					
pattery operation /oltage stability /oltage distortion BATTERIES Type Recharging method DVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]			50 or 60						
Voltage stability Voltage stability Voltage distortion BATTERIES Type Recharging method DVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) 4 Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]			0.01%						
Dynamic stability Voltage distortion BATTERIES Type Recharging method DVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]		±1%							
Voltage distortion BATTERIES Type Recharging method DVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) 4 Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]	EN 62040-3 class performance 1 non-linear load								
BATTERIES Type Recharging method OVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) 4 Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]	<pre></pre>								
Type Recharging method DVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) 4 Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]				/ =					
Recharging method OVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) 4 Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]			RLA AGM/GEL/NiC	d/Li-ion/SuperCar					
OVERALL SPECIFICATIONS Weight without batteries [kg] CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]			evel, Two level, Cyc						
Weight without batteries [kg] CPT - ACT - XTD (10-60) 4 Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]		One t	evel, Two level, Cyc		,table)				
CPT - ACT - XTD (10-60) 4 Weight [kg] S3T (80-120)									
Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]	8-72-103	50-74-105	52-76-107	48-72-103	50-74-105	52-76-107			
Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]	0-12-103	50-74-105	52-70-107 N.		50-74-105	52-70-107			
(WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]									
(WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]			Compact: 28	30x840x700					
(WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm]			Active: 380	x850x1025					
(WxDxH) [mm]			Xtend: 440	x840x1320					
			Ν.						
Communications			nic touch screen di t interface with 5x (
Ambient temperature for the UPS			0 °C -	+40 °C					
Recommended temperature for battery life			+20 °C -	- +25 °C					
Range of relative humidity			5-95% non-	condensing					
Colour			RAL	0					
Noise level at 1 m [dBA ±2] SMART ACTIVE									
IP rating	<40								
SMART ACTIVE efficiency	IP20								
<i>v</i>		up to 99% European directives: LV 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; RoHS compliant							
Moving the UPS	Direc	tive Standards: Sa				FI - SS - 111			

¹ For wider tolerance conditions apply. ^{BAT} Also available with internal batteries.

MODELS	S3T ACT-XTD 30 ^{BAT}	S3T ACT-XTD 40 ^{BAT}	S3T ACT-XTD 60 ^{BAT}	S3T 80	S3T 100	S3T 120		
NPUT								
Rated voltage [V]	380 / 400 / 415 three-phase + N							
Rated frequency [Hz]	50 / 60							
/oltage tolerance [V]	400 ±20% @ full load¹							
requency tolerance [Hz]	40 - 72							
Power factor @ full load	0.99							
Current distortion			THDI s	≤3%				
BYPASS								
Rated voltage [V]			380 / 400 / 415 th	nree-phase + N				
lumber of phases			3 +					
/oltage tolerance (ph-N) [V]	fro	om 180 (adjustable	180-200) to 264 (ac		64) referring to neut	ral		
Rated frequency [Hz]			50 or 60 (se		· · · · · · · · · · · · · · · · · · ·			
Frequency tolerance								
Bypass overload		110%			0 min			
	110% infinite, 125% for 60 min, 150% for 10 min							
Nominal power [kVA]	30	40	60	80	100	120		
ctive power [kW]	30	40	60	80	100	120		
Power factor		40	1 up to 4		100	120		
Number of phases		3 + N						
Rated voltage [V]		3801 / 400 / 415 three-phase + N (selectable)						
Rated frequency [Hz]	50 or 60							
battery operation	0.01%							
/oltage stability	±1%							
Dynamic stability	EN 62040-3 class performance 1 non-linear load							
/oltage distortion	<1% with resistive linear load / <1.5% with non-linear load							
BATTERIES								
уре	VRLA AGM/GEL/NiCd/Li-ion/SuperCaps							
Recharging method			evel, Two level, Cycli					
VERALL SPECIFICATIONS								
WHIGHT WITHOUT DATTARIAS [kd]	N.A78-112	N.A82-116	N.A87-130					
0	N.A70-112	N.A02-110	N.A07-130	172	N.A. 180			
CPT - ACT - XTD (10-60)		NL A				10.8		
CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120)		N.A.		172	100	198		
CPT - ACT - XTD (10-60)		N.A.	N.A		100	198		
CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60)						198		
CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm]	A	N.A.			N.A.	198		
CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm]			25			198		
CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60)	X	ctive: 380x850x102 tend: 440x840x132 N.A.	25	ч	N.A. N.A. 500x830x1600			
CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions STD (10-60) (WxDxH) [mm] Dimensions STT 80-120 (WxDxH) [mm]	X	ctive: 380x850x102 tend: 440x840x132 N.A. tus led bar - Grapł	25	play - 2 slots fo	N.A. N.A. 500x830x1600 r communications i	nterface		
CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm] Communications Ambient temperature for the UPS	X	ctive: 380x850x102 tend: 440x840x132 N.A. tus led bar - Grapł	25 20 nic touch screen dis	play - 2 slots fo pto insulated In	N.A. N.A. 500x830x1600 r communications i	nterface		
CPT - ACT - XTD (10-60) Veight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDXH) [mm] Dimensions ACT (10-60) (WxDXH) [mm] Dimensions XTD (10-60) (WxDXH) [mm] Dimensions S3T 80-120 (WxDXH) [mm] Communications Ambient temperature or the UPS Recommended temperature	X	ctive: 380x850x102 tend: 440x840x132 N.A. tus led bar - Grapł	25 20 nic touch screen dis c interface with 5x o	play - 2 slots fo pto insulated In 40 °C	N.A. N.A. 500x830x1600 r communications i	nterface		
CPT - ACT - XTD (10-60) Veight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm] Communications Ambient temperature or the UPS Recommended temperature or battery life	X	ctive: 380x850x102 tend: 440x840x132 N.A. tus led bar - Grapł	25 20 nic touch screen dis c interface with 5x o 0 °C - +	play - 2 slots fo pto insulated In 40 °C +25 °C	N.A. N.A. 500x830x1600 r communications i	nterface		
CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm] Communications Ambient temperature for the UPS Recommended temperature for battery life Range of relative humidity	X	ctive: 380x850x102 tend: 440x840x132 N.A. tus led bar - Grapł	25 20 nic touch screen dis c interface with 5x o 0 °C - + +20 °C -	play - 2 slots fo pto insulated In 40 °C +25 °C ondensing	N.A. N.A. 500x830x1600 r communications i	nterface		
CPT - ACT - XTD (10-60) Veight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm] Communications Ambient temperature or the UPS Recommended temperature or battery life Range of relative humidity Colour Noise level at 1 m [dBA ±2]	UPS sta USB	ctive: 380x850x102 tend: 440x840x132 N.A. tus led bar - Grapł	25 20 nic touch screen dis c interface with 5x o 0 °C - + +20 °C - 5-95% non-c	play - 2 slots fo pto insulated In 40 °C +25 °C ondensing	N.A. N.A. 500x830x1600 r communications i	nterface		
CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm] Communications Ambient temperature for the UPS Recommended temperature or battery life Range of relative humidity Colour Noise level at 1 m [dBA ±2] SMART ACTIVE	UPS sta USB	ctive: 380x850x102 tend: 440x840x132 N.A. tus led bar - Graph - RS232 - Contact	25 20 nic touch screen dis c interface with 5x o 0 °C - + +20 °C - 5-95% non-c RAL 7	play - 2 slots fo pto insulated In 40 °C +25 °C ondensing 016	N.A. N.A. 500x830x1600 r communications i put and 4x Output r	nterface		
CPT - ACT - XTD (10-60) Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120 (WxDxH) [mm] Communications Ambient temperature for the UPS Recommended temperature for battery life Range of relative humidity Colour Noise level at 1 m [dBA ±2] SMART ACTIVE IP rating	UPS sta USB	ctive: 380x850x102 tend: 440x840x132 N.A. tus led bar - Graph - RS232 - Contact	25 20 nic touch screen dis c interface with 5x o 0 °C - + +20 °C - 5-95% non-c RAL 7 <50	play - 2 slots fo pto insulated In 40 °C +25 °C ondensing 016	N.A. N.A. 500x830x1600 r communications i put and 4x Output r	nterface		
Weight [kg] S3T (80-120) Dimensions CPT (10-20) (WxDxH) [mm] Dimensions ACT (10-60) (WxDxH) [mm] Dimensions XTD (10-60) (WxDxH) [mm] Dimensions S3T 80-120	UPS sta USB	ctive: 380x850x102 tend: 440x840x132 N.A. tus led bar - Graph - RS232 - Contact 40	25 20 nic touch screen dis c interface with 5x o 0 °C - + +20 °C - 5-95% non-c RAL 7 <50	play - 2 slots fo pto insulated In 40 °C +25 °C ondensing 016 0 99% :ive EMC 2014/30 1; EMC IEC EN 62	N.A. N.A. 500x830x1600 r communications i put and 4x Output r <55 0/EU electromagnet 2040-2; RoHS comp	nterface relays tic compatibili pliant		

¹ For wider tolerance conditions apply.

BAT Also available with internal batteries.

Note: S3T ACT 60 model is without internal batteries.



RPS SpA - Riello Power Solutions - Member of the Riello Elettronica Group

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