



EMERGENCY



E-MEDICAL



INDUSTRY



DATACENTRE



TRANSPORT

riello ups

Sentryum



ONLINE



Tower



USB plug



Energy Share



Service 1st start



Supercaps UPS



SmartGrid ready



sentryum

1:1 **3:1** 10-20 kVA/kW

3:3 10-40 kVA/kW

HIGHLIGHTS

- **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, augmented focus on environmental matters and complexity of critical applications are demanding more flexible, efficient, secure and interconnected power protection solutions.

The Sentryum 10-40 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 third-generation transformer-free UPS, originally introduced into the market over twenty 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 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 DSP (Digital Signal Processor), dual core microprocessor, three-level inverter circuits and resonant control to provide maximum protection to the critical loads with no impact on downstream systems, whilst maintaining optimised energy savings. With a unique control system, it makes it possible to

MODELS	S3M CPT-ACT-XTD 10 BAT	S3M CPT-ACT-XTD 15 BAT	S3M CPT-ACT-XTD 20 BAT	S3T CPT-ACT-XTD 10 BAT	S3T CPT-ACT-XTD 15 BAT	S3T CPT-ACT-XTD 20 BAT	S3T ACT-XTD 30 BAT	S3T ACT-XTD 40 BAT
INPUT								
Rated voltage [V]	380 / 400 / 415 three-phase + N 220 / 230 / 240 single-phase + N			380 / 400 / 415 three-phase + N				
Rated frequency [Hz]	50 / 60							
Voltage tolerance [V]	230 / 400 ±20% @ full load¹			400 ±20% @ full load¹				
Frequency tolerance [Hz]	40 - 72							
Power factor @ full load	0.99							
Current distortion	THDI ≤3%							
BYPASS								
Rated voltage [V]	220 / 230 / 240 single-phase + N			380 / 400 / 415 three-phase + N				
Number of phases	1 + N			3 + N				
Voltage tolerance (Ph-N) [V]	from 180 (adjustable 180-200) to 264 (adjustable 250-264) referring to neutral							
Rated frequency [Hz]	50 or 60 (selectable)							
Frequency tolerance	±5% (selectable)							
Bypass overload	110% infinite, 125% for 60 min., 150% for 10 min.							
OUTPUT								
Nominal power [kVA]	10	15	20	10	15	20	30	40
Active power [kW]	10	15	20	10	15	20	30	40
Power factor	1 up to 40 °C							
Number of phases	1 + N			3 + N				
Rated voltage [V]	220¹/ 230 / 240 single-phase + N (selectable)			380¹/ 400 / 415 three-phase + N (selectable)				
Rated frequency [Hz]	50 or 60							
Frequency stability on battery operation	0.01%							
Voltage stability	±1%							
Dynamic stability	EN 62040-3 class performance 1 non-linear load							
Voltage distortion	<1% with resistive linear load / ≤1.5% with non-linear load							
BATTERIES								
Type	VRLA AGM/GEL/NiCd/Li-ion/SuperCaps							
Recharging method	One level, Two level, Cyclic recharge (selectable)							
OVERALL SPECIFICATIONS								
Weight without batteries [kg]								
CPT - ACT - XTD	48-72-103	50-74-105	52-76-107	48-72-103	50-74-105	52-76-107	N.A.-78-112	N.A.-82-116
Dimensions CTP (WxDxH) [mm]	Compact: 280x840x700						Not applicable	
Dimensions ACT (WxDxH) [mm]	Active: 380x850x1025							
Dimensions XTD (WxDxH) [mm]	Xtend: 440x840x1320							
Communications	UPS status led bar - Graphic touch screen diplay - 2 slots for communications interface USB - RS232 - Contact interface with 5x opto insulated Input and 4x Output relays							
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 7016 Anthracite grey							
Noise level at 1 m [dBA ±2] SMART ACTIVE	<40							
IP rating	IP20							
SMART ACTIVE efficiency	up to 99%							
Standards	European directives: L V 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 Classification in accordance with IEC 62040-3 (Voltage Frequency Independent) VFI - SS - 111							
Moving the UPS	Castors / pallet jack							

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