

## Sentinel XR Plus



Sentinel XR Plus is the ideal solution for powering vital mission critical, sensitive loads such as electro-medical security applications in order to guarantee maximum reliability and availability. The series includes 5kVA-6kVA single/single phase and 6.5kVA-8kVA-10kVA single/single phase and three/single phase models and uses double conversion on-line technology (VFI). The load is powered constantly by the inverter which supplies filtered, stabilised and regulated sinewave voltage. Moreover, the input and output filters increase the immunity of the load against mains power disturbances and lightning strikes.

Sentinel XR Plus is without doubt one of the best UPS systems on the market today thanks to the technology used, the features (selectable Economy Mode and Smart Active Mode) and the diagnostics offered (custom LCD display, RS232 and USB interfaces complete with Watch&Save 3000 software, EPO contact and slots for optional interface boards).

### HIGH RELIABILITY

- Full microprocessor control.
- No break static and maintenance bypass.
- Features guaranteed up to 40 °C (the components are designed to operate at high temperatures and thus are subject to less stress at ordinary temperatures).

### SELECTABLE OPERATING MODES

The operating mode can be programmed using the software or selected manually on the digital front panel display.

- On line Mode (VFI).
- Economy Mode: increases efficiency (up to 98%), and uses Line Interactive (VI) technology to power low priority loads from the mains supply.
- Smart Active Mode: the UPS automatically decides which operating mode to use (VI or VFI) depending on the quality of the mains supply.
- Emergency Mode: the UPS can be set to operate only when mains power fails (emergency only mode).
- Frequency converter Mode (50 or 60 Hz).

### HIGH QUALITY OUTPUT VOLTAGE

- Even with distorting loads (IT loads with crest factor of up to 3:1).
- High short circuit current on bypass.
- High overload capacity: 150% on inverter, even when mains power fails.
- Filtered, stabilised and reliable voltage (double conversion on-line technology, VFI compliant with EN62040-3 specifications, with filters to suppress atmospheric interference).
- Rephasing of the load: UPS input power factor close to 1 with sinusoidal current absorption.

### SIMPLIFIED INSTALLATION

- The UPS can be connected to both single phase and three phase mains supplies.
- Output terminal board + 2 IEC plugs to power local equipment (computers, modems, etc.).
- Easy to move thanks to built-in wheels.

### HIGH BATTERY RELIABILITY

- Automatic and manual battery tests.
- Low Ripple Current Discharge system "LRCD" to prolong battery life.
- Unlimited extendable runtime thanks to dedicated modular design Battery Boxes.
- Increased ride-through for mains failures up to 40ms (high hold up time) and for fluctuations in the input voltage ranging from 84V to 276V).

### LOW IMPACT ON MAINS POWER

- Sinusoidal input current on single phase/single phase series.

### OTHER FEATURES

- Advanced diagnostics: status, measurements and alarms available on the custom LCD display.
- Very low noise level (<40dBA): for installation in any environment thanks to the PWM digitally controlled ventilation that is load dependent, and the use of an inverter with high switching frequency (>20kHz, value above the audible range).
- Autostart when mains power returns, can be programmed using software or the digital front panel display.
- Emergency mode: the UPS can be programmed to work only when mains power fails (suitable for emergency lighting).
- Standard back feed protection: to avoid current being fed back into the mains system.
- Digital updating of the UPS (flash upgradable).

### ADVANCED COMMUNICATION

- Compatible with the AROS TeleNetGuard remote assistance system.
- Advanced, multiplatform communication for all operating systems and network environments: Watch&Save 3000 monitoring and shutdown software included, for Windows 2008, Vista, 2003, XP, Mac OS X, Sun Solaris, Linux, Novell and other Unix operating systems.
- RS232 serial port.
- Plug and Play connection.
- Slots for communication interface boards.

### APPLICATIONS

- Local Area Networks (LAN)
- Data Centers
- Servers
- Industrial PLCs
- Cash registers
- Electromedical devices
- Emergency devices (lights/alarms)
- Telecommunication devices



# Sentinel XR Plus

## Technical data

Models	XRMP 5000	XRMP 6000	XRTP 6500	XRTP 8000	XRTP 10000
Power	5000VA/4000W	6000VA/4800W	6500VA/5200W	8000VA/6400W	10000VA/8000W
<b>Input</b>					
Rated voltage	220-230-240 Vac single-phase		220-230-240 Vac single-phase or 380-400-415 Vac three-phase with neutral		
Minimum voltage without battery intervention	170 Vac @ load 100% / 140 Vac @ load 50%				
Rated frequency	50/60 Hz $\pm$ 5Hz				
<b>By pass</b>					
Voltage range	180 - 264 Vac (selectable in Economy Mode and SMART Mode)				
Frequency range	Selected frequency $\pm$ 5Hz				
<b>Batteries</b>					
Recharge time	6 - 8 h				
<b>Output</b>					
Rated voltage	220 - 230 - 240 Vac selectable				
Static variation	$\pm$ 1,5 %				
Dynamic variation	$\leq$ 5% in 20 ms				
Waveform	Sinewave				
Voltage distortion with linear load	< 3%				
Voltage distortion with non-linear load	< 6%				
Frequency	50/60 Hz selectable or auto sensing				
Crest factor	$\geq$ 3 : 1				
<b>Overload capacity</b>					
100% < Load < 125%			1'		
125% $\leq$ Load < 150%			4"		
Load $\geq$ 150%			0.5"		

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System	XRMP 5000	XRMP 6000	XRTP 6500	XRTP 8000	XRTP 10000
Weight (kg)	89	90	91	94	95
Dimensions (wdh) (mm)	282x785x615				
Efficiency Smart Mode	up to 98%				
Operating temperature	0 °C ÷ +40 °C				
Humidity	< 95% non condensing				
Protection	Overload - short-circuit - overvoltage - undervoltage - temperature - low battery				
Compliance	EN 62040-1 EMC EN 62040-2 Directives 2006/95/EC - 2004/108 EC EN 62040-3				
Communication	RS232 + USB + remote contacts + communication interface slot				
Colour	Dark grey (RAL 7016)				
Noise	<45 dBA at 1 m				

## Details

